

# FINANCIAL TIMES

EUROPE'S BUSINESS NEWSPAPER

No. 29,177

Monday November 21 1983

D 8523 B

Inflation and  
drought hit  
Australia, Page 6

## NEWS SUMMARY

### GENERAL

#### Iran and Iraq in fierce battle

Iran and Iraq both said their forces were locked in fierce fighting in the Kurdish mountains in northern Iraq. Iran said hundreds of Iraqi troops were killed to the west of Baghdad, and that a battalion and four companies were wiped out. The official Iraqi news agency in Baghdad said Iraq had crushed a new Iranian attack, killing nearly 11,000 troops, capturing many others, and seizing vast quantities of weapons. Iran launched its offensive in the area a month ago.

#### Radioactive check

UK Government ordered an investigation into the contamination of a beach by radioactive waste near a nuclear reprocessing plant in Cumbria, north-west England. Page 7. Concern over Argentine nuclear plans. Page 2.

#### Madrid rally halted

Riot police sealed off a central Madrid square to prevent hundreds of right-wing extremists from marking the eighth anniversary of the death of General Franco. There were several arrests.

#### Sparks charged

South African journalist Allister Sparks, correspondent of the Observer, London, and the Washington Post, who was arrested eight months ago, said he had been charged with violating the country's censorship laws by quoting a banned person, Mrs Winnie Mandela, and would appear in court tomorrow week.

#### Soviet version

Soviet daily Sovetskaya Rossiya said that former U.S. President John Kennedy, shot dead 20 years ago tomorrow, was removed by those who placed him in power because he had ceased fully to serve their interests.

#### Portuguese deaths

At least nine people died in the Lisbon area in Portugal's worst floods for 16 years. Page 3.

#### Nicosia protest

Thousands of Greek Cypriots plan to protest in the capital Nicosia against the declaration of a separate Turkish state in Cyprus. Page 3.

#### Minister's escape

A security guard foiled an attempt to shoot dead Assam state's chief minister, Hiteswar Saikia, in Gauhati.

#### Ethiopian move

The Ethiopian army, supported by Cuban forces and Soviet advisers, is massing troops and heavy arms on its border with Sudan, according to the official Sudan news agency.

#### New line on Mayerling

The former Empress Zita of Austria-Hungary, aged 91 and living in exile in Switzerland, said that Crown Prince Rudolf, who died with Countess Maria Vetsera at Mayerling 96 years ago, did not commit suicide but was shot on the orders of French Premier Georges Clemenceau, who had wanted him to topple his father, Emperor Franz Josef.

#### Tsarist gold find

A woman working on demolition of a Leningrad house found a gold brick with a Tsarist seal weighing 3.47 kg (7.6 lb), in a bedroom fireplace.

#### Briefly...

Football: European Nations Cup. West Germany beat Albania 2-1 at Saarbrücken to win Group 6.

### BUSINESS

#### France presses Soviets for trade

FRANCE will ask the Soviet Union, in talks starting in Moscow today, for more plant and equipment orders, which have fallen recently. It is concerned about the possible long-term imbalance of trade, in view of increasing Soviet gas sales. Page 6.

#### THE DOLLAR'S continued strength

was the dominant factor affecting the European Monetary System last week. It touched record levels against the French and Belgian francs and

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## U.S. HOPES FIRST PERSHING MISSILES WILL ARRIVE ON WEDNESDAY

### Bundestag set to clear way for missile deployment

BY RUPERT CORNWELL IN BONN AND REGINALD DALE IN WASHINGTON

West Germany's ruling coalition is set to win parliamentary approval tomorrow, in the teeth of overwhelming hostility from the Social Democrat (SPD) opposition, for an immediate start to deployment of new Nato intermediate nuclear weapons in the country.

The Reagan Administration was yesterday disappointed by SPD hostility, but U.S. officials expressed confidence that the Bundestag would approve deployment on Tuesday - allowing the first batch of Pershing 2 missiles to be flown to West Germany perhaps as early as Wednesday.

Administration officials, however, stressed what they saw as the irony of the SPD opposition - given that it was the SPD under Chancellor Helmut Schmidt that was the prime mover in requesting the missiles in the first place in the late 1970s.

U.S. officials believe that opponents of the missiles in Western Europe all too often forget that the U.S. originally agreed to provide them as part of a Nato deployment

### UK to focus on welfare state for spending cuts

BY ROBIN PAULEY IN LONDON

BRITAIN'S Conservative Government is to focus on the welfare state in its search for substantial long-term cuts in public spending, Mr Nigel Lawson, Chancellor of the Exchequer, said yesterday.

The Government would look especially hard to see if radical changes could be made in the financing of social security, health and education, with a greater emphasis on private, rather than state provision of services.

A radical approach was necessary, Mr Lawson said in a television interview, to prevent a resurgence of public spending because of the "fundamental social and economic pressures" which would appear on welfare state payments by the 1990s.

Public spending had to be contained to allow for the tax cuts

### China seeks to renegotiate its textile agreement with EEC

BY ANTHONY MORETON, TEXTILES CORRESPONDENT, IN LONDON

CRUCIAL TALKS on the renegotiation of China's six-year-old textile agreement with the European Community, which could lead to a big influx of Chinese goods into Europe, are scheduled to open in Brussels this morning.

China already has a massive textile trade surplus with the Community in its favour and is understood to want access to larger European markets.

It has set its sights on West Germany in particular. This poses a difficult problem for the Germans, since they have always been the leaders of the liberal wing within the Community, urging their partners to take a more relaxed line on growth of textiles and clothes from low-cost sources in the Far East.

The present agreement ends on December 31, and the Commission has set aside two weeks for the talks, but this is thought to be optimistic. If there is no agreement by the end of the year, negotiations could be resumed in Peking some time in January.

If they continue much beyond the end of this month, China's position will be immeasurably strengthened, because on December 15 its application to join the Multi-Fibre Ar-

angement (MFA) comes before a committee of the General Agreement on Tariffs and Trade (GATT) in Geneva. GATT officials report that China has done its homework well and its application is certain to succeed.

Membership of the MFA will allow China to claim the same rights in its negotiations with the EEC as other MFA member states, such as Hong Kong and South Korea.

China was the third largest exporter of textiles to the EEC last year, behind Hong Kong and South Korea, and will probably move into second place this year. It is known to want to obtain much higher quotas for the highly sensitive products, such as cotton yarn, spun synthetic fabrics, knitted shirts, sweaters and trousers.

The European industry, through Comitex, the producers' organisation covering member countries, is opposed to this. It is urging that China should be categorised as a dominant supplier - along with Hong Kong, South Korea, Taiwan and Macao - which would restrict its rate of growth in these sensitive products to low levels.

"We are very concerned at the

quantities China wants to send to Europe," Mr Camille Blum, Director General of Comitex, said in Brussels. "We simply cannot accept higher levels." The European industry believes it took a liberal view when the present agreement was negotiated in 1977 and cannot afford to do so a second time.

The Europeans are also aware that, when China and the U.S. concluded a textile pact four months ago, the agreement was bitterly criticised by U.S. producers.

China's increased quota base levels, which give it the right, for instance, to send 52 per cent more towels to the U.S. by 1987, has been described as completely unsatisfactory by Mr James Chapman, President of the American Textile Manufacturers' Institute.

He has charged that the agreement exceeds anything that could be described as reasonable, and called for extra vigilance to watch for possible disruption of the home industry.

### Syrians down Israeli fighter

By Patrick Cockburn in Bhamdoun, Lebanon

SYRIA shot down an Israeli fighter-bomber attacking Palestinian units east of Beirut yesterday in marked sharpening of the conflict between the two countries in Lebanon.

Druze militia leaders who control the town of Bhamdoun said yesterday they saw a missile climbing towards the Israeli plane and exploding. They denied Syrian claims that a second Israeli aircraft was hit.

The Israeli attack was on Palestinians both in Druze-held areas and behind the Syrian lines but was largely unsuccessful. In two of the three towns the Israelis say they raided, damage was superficial. In the town of Bhamdoun, shattered by fighting between Druze and Christian militiamen in September, a bomb landed behind a building housing members of Saika, a Palestinian group closely controlled by Syria.

Israel confirmed that it lost one aircraft but denied that a second had been shot down. David Lemmon writes from Tel Aviv.

Mr Dan Meridor, the Cabinet Secretary, said the air raid was one of several tactics being employed to prevent the guerrillas from rebuilding their infrastructure in Lebanon. He also confirmed that the strikes were directed against the Palestinian radical splinter group, the Popular Front for the Liberation of Palestine, and the Syrian-backed al-Saiq.

The Druze, close allies of Syria who took control of the long mountain ridge leading towards Beirut in heavy fighting last September, said they clearly had not been the object of the Israeli air attack. Mr Yassir Haidar, their spokesman, added that most of the Palestinians in the area had gone north to fight against Mr Yassir Arafat in Tripoli.

The shooting down of the aircraft by Syrian missiles marks a major change in Syria's policy. In the past, it has not responded to Israeli air attacks behind its line so long as they were not directed towards its troops.

Israeli and French aircraft escaped Syrian anti-aircraft fire when they attacked buildings housing Iranian revolutionary guards and Islamic fundamentalists in the Syrian-controlled Bekaa Valley last week.

Israel has returned to its old policy of striking at targets outside its lines whenever there is a guerrilla attack.

Continued on Page 20  
Israel and France likely targets, Page 2

### Brazilian loan package near to completion

BY PETER MONTAGNON IN LONDON

BRAZIL is now within striking distance of completing its \$6.5bn loan from international banks, a crucial part of the \$1bn debt rescue package for the country.

By the close of business in New York on Friday, more than \$5.8bn, or 90 per cent of the total required, had been subscribed, according to Mr William Rhodes, a senior Citibank executive and head of the advisory committee of banks spearheading negotiations with Brazil.

The success of the loan has cleared the way for the International Monetary Fund's executive board to approve a resumption of lending to Brazil at its meeting tomorrow, setting the rescue package for Brazil formally in motion.

A final hurdle for this approval had been the receipt of a "critical mass" of subscriptions to the loan, but on the basis of past performance this question has now become academic. The IMF, which approved Mexico's programme when only 85 per cent of its \$5bn loan had been received, is unlikely to be worried by the missing 10 per cent of subscriptions for Brazil.

The advisory committee of banks already regards the loan venture as a success. Mr Rhodes said, that the loan results had exceeded many

### Steel unions oppose Arbed-Cockerill link

BY PAUL CHEESERIGHT IN BRUSSELS

SOCIALIST-LED unions in Belgium are putting pressure on the Brussels Government to halt plans for a co-operation agreement between Cockerill Sambre, the state-owned steel producer and Arbed of Luxembourg.

Cockerill Sambre plants in the Liège area will be closed today in protest at the plan which was subject of secret discussions between the two governments on Friday.

These talks stalled on the issue of guarantees sought by Luxembourg. A special committee of the Belgian Cabinet met today to consider the co-operation plan and also a restructuring scheme for Cockerill Sambre.

The plan is proving politically sensitive for leading politicians with bases in the Liège and this is reflected in emerging Cabinet divisions.

The basis of the co-operation

#### ARGENTINE DOUBTS

Prospects that Argentina will be able to draw a \$500m loan instalment from its commercial bank creditors at the end of this month have begun to recede, prompting new worries about its ability to pay off mounting arrears on its \$400m foreign debt. Page 2

bankers' expectations because of the care taken by Brazil and the committee to explain it to all 830 bank creditors.

The loan proves that lending to debt-ridden countries "can function if it is properly structured and organised. We did not try and shove it down their (creditor banks) throats," he said.

Brazil wants a first disbursement of the credit, amounting to \$3bn, before the end of the year so that it can eliminate arrears on its foreign debt. However, although the bulk of the money is now secure, bankers point out that pulling in the last few hundred million dollars from the most reluctant banks could take a long time.

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## OVERSEAS NEWS

## Prospects of prompt Argentina loan recede

BY PETER MONTAGNON, EUROMARKETS CORRESPONDENT

PROSPECTS of Argentina drawing a \$500m loan instalment from its commercial bank creditors at the end of the month are receding, prompting new worries about its ability to pay off mounting arrears on \$400m of foreign debt.

The drawing, from a \$1.5bn credit agreed by all the country's commercial bank creditors, had been set for November 30 as part of a revised timetable under which Argentina is sup-

posed to complete 1983 rescheduling of \$6bn in public sector debt by mid-December.

Despite the near euphoria with which the international banking community greeted the victory of Sr Raul Alfonsín's Radical Party in the recent elections, bankers say they are still not clear as to the incoming Government's policy on Argentina's foreign debt.

A particular source of dis-

appointment has been Argentina's failure to honour the debt agreements of the outgoing military administration. Banks had been hoping that rescheduling agreements would be signed by state agencies such as the utility company Agua y Energía as an indication that Argentina would stick to the new timetable for its debt rescue programme.

With no progress on this front, a significant number of creditor banks have yet to agree to the \$500m drawing on

November 30 and unless they do so soon, the drawing will have to be postponed for a third time. Argentina needs the money to repay part of a \$1.1bn bridging loan granted by creditor banks earlier this year and to reduce debt service arrears which are now thought to exceed \$500m.

Further delay would be particularly unwelcome to U.S. banks, which face having to classify their Argentina loans as non-performing if the arrears

are not cleared up by the end of the year.

Some bankers suggested over the weekend that a formal requirement on Argentina to sign at least one rescheduling before the end of the month might be discreetly dropped to allow the drawing to go ahead. This would acknowledge that the imminent hand-over of power will make it very hard for Argentina to complete its rescheduling arrangements as planned on December 15.

## Greyhound peace plan proposed

By Terry Dedworth in New York

MANAGEMENT and union leaders at the strikebound Greyhound bus company have hammered out a return-to-work formula after four days of violent clashes on picket lines across the U.S.

The new proposals will be put to the 12,500 members of the Amalgamated Transit Union without a recommendation from the leadership. No details of the formula have been issued, but the union is known to have compromised on its insistence that it would not tolerate the wage cuts of 9.5 per cent demanded.

In a show of strength against the strikers, Greyhound management has refused to halt its resumed bus services. These resumed last week on a reduced network using non-union drivers and other personnel, along with some union members who had decided to accept the management's wage cut.

There were signs at the weekend that Greyhound's tactics in trying to force concessions from the workforce were beginning to pay off.

On Thursday, heavy picketing of bus depots across the country led to a series of violent incidents between police and strikers, apparently deterring the public from using the service. But the passenger count has been steadily picking up.

## Israel and France are likely targets for Shia guerrillas

BY PATRICK COCKBURN IN BEIRUT

ISRAELI and French air raids on the headquarters of Shi'ite militants in east Lebanon as well as Israeli exchanges with Syria—during which at least one Israeli jet was shot down—this weekend—have made both countries obvious targets for retaliation by Shia Moslems.

Although yesterday's Israeli attacks did seem to be directed against Palestinian guerrillas rather than Shia Moslems, an Israeli soldier was shot dead and a French checkpoint in Beirut came under rocket and machine gun fire soon after aircraft had returned to the airport carrier. Clashes occurred after attacking Basheik last week.

Last night in Paris, the French Government and police were seeking clues to whether a bomb raid on a restaurant in the French capital late on Saturday night, in which 30 people were wounded, was a terrorist counter-attack.

The vicious circle of retaliatory attacks is likely to continue. The military leader of Amal, the Shia group which rules the 600,000 inhabitants of the slums of south Beirut, said yesterday that "we shall keep

up our Jihad (Holy War) by blowing ourselves up inside their centres and positions." The 2,100 French troops belonging to the multi-national force are clearly vulnerable, but the most significant development is the increase in guerrilla attacks against the 15,000 Israeli soldiers who hold south Lebanon behind the Awali River.

When the Israelis invaded Lebanon last year many of the Shia, who are the largest community there, were glad to see the backs of the Palestine Liberation Organisation. There had already been clashes between Amal and PLO fighters. Israel seems to have wholly underestimated the potential menace of the im-

Shia Moslems, who are Lebanese's largest community.

Both the traditional and militant new Shi'ite leadership has united in opposition to the Israelis in the south, creating a few hundred guerrillas.

Attacks on Shi'ite militants in the Bekaa Valley are likely to prove ineffectual in stopping them, however satisfactory it may be to Jerusalem and Paris to exact retribution.

## U.S. dilemma over arms sales

AMERICA can see no grounds for refusing to sell arms to Argentina, Mrs Jeanne Kirkpatrick, the U.S. Ambassador to the UN, said last night. But she insisted that the U.S. would never sell arms to a country which was at war with Britain.

The views of America's allies would be carefully considered, she said on Channel 4's Face The Press.

"The point is not that we want to sell arms to Argentina. The point is that we find no grounds to continue to refuse to sell arms to Argentina because the certification was based on the absence of democratic process and consistent human rights violation."

Mr Blair's tour of nuclear sites, covered by safeguard arrangements with the IAEA, was arranged several months ago. But it is now expected to be everything but the low profile visit that was originally intended. He is expected to seek firm assurances from the incoming radical Government that the country's atomic research will be used only for civilian purposes.

Admiral Carlos Castro Madero, head of Argentina's Atomic Commission, revealed on Saturday that the plant had been under construction since 1978 in the province of Rio Negro near the Chilean border, and would be fully operational by 1985. It will produce uranium enriched by up to 20 per cent for use in the country's

## Controversy grows over nuclear policy

BY JIMMY BURNS IN BUENOS AIRES

INTERNATIONAL concern about Argentina's nuclear plans has grown following the surprise announcement that a reprocessing plant capable of producing enriched uranium was being secretly built near Pilcaniyeu in southern Argentina.

In the midst of this major controversy over the country's nuclear programme, Mr Hans Blix, Director General of the international nuclear watchdog, the Vienna-based International Atomic Energy Agency (IAEA), today begins a five-day official visit to Argentina.

Mr Blix's tour of nuclear sites, covered by safeguard arrangements with the IAEA,

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Admiral Carlos Castro Madero, head of Argentina's Atomic Commission, revealed on Saturday that the plant had been under construction since 1978 in the province of Rio Negro near the Chilean border, and would be fully operational by 1985. It will produce uranium enriched by up to 20 per cent for use in the country's

experimental reactors and power plants. The uranium could also be used in the nuclear-powered submarines which Argentina has already announced it is developing.

Admiral Castro Madero did not specify whether the new plant would have the capacity to enrich uranium by 95 per cent, the level needed to produce nuclear weapons. But he said that the gaseous diffusion plant had been built under military auspices and remained a state secret.

Western diplomats are worried by the incoming Government's apparent refusal to sign or ratify the nuclear non-proliferation treaty (NPT) and the Treaty of Tlatelolco which

governs the spread of nuclear weapons in the region. In addition, Argentina is continuing to reject "full scope" safeguards. All Argentine elements in the nuclear programme such as the plant in Rio Negro and the reprocessing plant being built near Buenos Aires are not subject to IAEA inspection.

The Argentines regard the nuclear safeguards as designed to maintain the nuclear status quo and prevent the Third World from benefiting from the transfer of technology.

Mr Roberto Peraza, a nuclear policy adviser to the incoming Government, said that the Treaty of Tlatelolco was an attempt "to disarm the dis-

armed."



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## Manila's foreign exchange reserves climb to \$600m

BY EMILIA TAGAZA IN MANILA

THE PHILIPPINES' dwindling foreign exchange reserves have slightly improved to about \$600m (\$402m) from the October level of about \$450m.

Mr Jaime Laya, the central bank governor, said the increase is due mainly to the turn-over to the Government of all the bank's foreign exchange earnings.

Early this month, the central bank ordered banks to sell all their foreign exchange earnings so that the Government could regulate the flow of foreign payments.

The Government has been digging up the country's international reserves in order to meet maturing debts and interest because the flow of fresh foreign loans and investments has been at a standstill since September.

Meanwhile, a banking official said that the country's total foreign debts may have already reached \$30bn, instead of the \$25bn as earlier estimated by the central bank. The higher estimate was disclosed as monetary authorities hinted at the discovery of several unauthorised foreign borrowings in the course of negotiations in New York for the rescheduling of some of the country's debts.

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### THE UNION STEEL CORPORATION (OF SOUTH AFRICA) LIMITED

(Incorporated in the Republic of South Africa)

REPORT FOR THE FINANCIAL YEAR ENDED 30 SEPTEMBER 1983

The directors announce that the audited consolidated results for the financial year ended 30 September 1983, are as follows:

	Year ended 30 Sept. 1983	Year ended 30 Sept. 1982
Operating income	R900	R900
Plus: LIFO adjustment	142	(618)
Income from investments	143	157
Less: Depreciation	2157	1751
Interest paid	3145	7041
Net income before taxation and extraordinary item	869	7529
Less: Taxation	475	2942
Net income before extraordinary item	17	(2746)
Plus: Extraordinary item	4715	5688
Group income	—	1421
Earnings per ordinary share	4715	7108
	15.79c	19.05c

## OPERATING INCOME

The audited group income after tax for the financial year ended 30 September 1983, amounted to R4 178 000 after a favourable LIFO adjustment of R3 142 000 (1982—unfavourable adjustment of R6 198 000) has been made. The favourable adjustment is the result of a planned reduction in group stocks to coincide with the lower group activities. Interest paid of R5 690 000 and depreciation of R5 145 000, was taken into account and are R1 161 000 and R1 104 000 respectively higher than that of the previous financial year.

Operating income declined by R5 118 000 as a result of lower despatches of the steel division, including earnings. The non-ferrous division of the Corporation succeeded in maintaining the turnover of the previous financial year. Under these circumstances, a satisfactory profit was realised by this division, which counteracted the loss sustained in the steel division.

No provision has been made for taxation due to an accumulated tax loss and the Corporation will not be liable for tax on the income of the past financial year.

## DIVIDEND DECLARATION

Notice is hereby given that a final dividend of 8.0 cents per R2.00 share for the year ended 30 September 1983 is declared on the 'A' and 'B' preference shares.

Notice is also given that a dividend of 3.0 cents per 50 cent share has been declared on the ordinary shares.

Dividends are payable to shareholders registered in the books of the Corporation at the close of business on 9 December 1983. The transfer books and registers of members will be closed from 18 December 1983 to 23 December 1983, both days inclusive, and warrants will be posted from Johannesburg and London on or about 13 January 1984. Registered shareholders paid from London will receive the United Kingdom currency equivalent on 4 January 1984 of the rand value of their dividends.

Any change of address or dividend instructions, must be received by the transfer secretaries on or before 9 December 1983.

Non-resident shareholders' tax of 15 per cent will be deducted from dividends where applicable.

By order of the board  
P. E. BRINK  
Secretary

Transfer Secretaries:  
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15 November 1983



## OVERSEAS NEWS

James Buchan reports from Cologne on the missile debate at the SPD conference

## Social Democrats exorcise their Three Kings

The SPD rejects the deployment of new American medium-range systems on the territory of the Federal Republic.

THE POET, Heinrich Heine, returned from exile to Cologne one dark November day in 1843, was greeted by the jabbering ghosts of the Three Kings whose bones are supposed to lie in a golden casket in the cathedral.

West Germany's Social Democrats, setting off for somewhere or other on another dark November day in Cologne at the weekend, also had their Three Kings to exorcise: Herbert Wehner, Helmut Schmidt, and Willy Brandt, the three who together or against one another, held the party in power from 1969 to 1982.

The first was Herbert Wehner, 77, the long-time parliamentary floor leader and the former Marxist who yet led the party out of its Left-wing cul-de-sac so it could one day take power. He sat, pale, hunched and clearly very ill through the debate on why his party must now reject deployment of U.S. nuclear missiles which could start on Wednesday, after a two-day Bundestag debate.

Mr Lubomir Strougal, Czechoslovakia's Prime Minister, has warned West Germany of the consequences of deploying new American missiles in West Germany, Leslie Collitt reports from Berlin.

Mr Strougal said the stationing of 572 medium-range missiles would inevitably lead to counter measures. "Good neighbourly relations"

He did not speak at all. The second was the party chairman, Willy Brandt, 70 in December, the first SPD post-war Chancellor and the man who, on October 22, addressed the great anti-missile demonstration in Bonn. He spoke twice, full of rage and occasionally mawkish, and was greeted with heartfelt applause from the 400 delegates. The king of the hour.

The great powers haggling over the missiles has demonstrably "failed with what is going to begin on Wednesday," he said to applause. "Geneva has failed above all because of the pig-headedness of those who thought it more important

between Prague and Bonn could change, as the missiles would threaten Czechoslovak territory," he stressed.

In response to the deployment of the U.S. missiles, the Soviet Union had recently announced it would station more missiles in Czechoslovakia and East Germany. "No one in Czechoslovakia is happy about new Soviet missile complexes being

stationed here," Mr Strougal said.

The Czechoslovak and East German media have noted that a number of their citizens were questioning the need for more Soviet missiles. This is seen as Moscow's Prague and East Berlin allies criticising the decision but as a bid to gain the sympathy of the West German peace movement.

or two, criticising successive U.S. administrations over arms control, apologising for exposing Germany more than the other stationing countries by agreeing to take the Pershing 2 as well as just cruise missiles.

Then came the silences. "The Federal Republic must keep its word," Moscow cannot be allowed to destroy the balance of power. The West must voluntarily support its leading power. "Comrades, I see there is no applause," he said icily, as if he had lost none of his authority. "Perhaps, you will think it over in the next few years."

Thirteen delegates voted with the former chancellor and three abstained.

The delegates seemed happy, free at last of the Schmidt rigour and the Wehner caution, free on Herr Brandt's long rein. Herr Schmidt quoted some of Heine's thoughts from Cologne but stopped before the passage, 60 lines later, where the poet throws off the most persistent of the ghostly kings with the words: "You belong in the past."

## Athens makes new bid for Arab support of UDI condemnation

BY ANDRIANA IERODIACONOU IN ATHENS

THE GREEK Government has intensified its lobbying of the Arab world for support against last week's unilateral declaration of independence (UDI) in occupied northern Cyprus by Mr Rauf Denktaş, the Turkish Cypriot leader. Athens is battling against a strong sense of Islamic solidarity, which has led Arab countries to support the Turkish cause in Cyprus, despite the actively pro-Arab policy of successive Greek governments.

Dr Andreas Papandreu, the Greek Prime Minister, has sent a letter to Mr Chabli Kili, the General Secretary of the Arab League, appealing for help in condemning Mr Denktaş and forcing him to revoke his decision. Greek Assistant Foreign Minister, Mr Karolos Papoulias arrived in Kuwait from Saudi Arabia yesterday, continuing a diplomatic lobbying mission in the Gulf.

So far, of the Arab countries of the Middle East and North Africa, only Algeria has reacted against the Denktaş move. Jordan abstained in last Friday's Security Council vote on Cyprus. Which way the rest of the Arab states will swing will be a crucial test for the Papandreu Government's Arab policy. This has involved friendships with the more radical Arab states, such as Libya and Syria, and active backing of the Palestinian cause against Israel.

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## Nine die as floods sweep through Lisbon suburbs

BY DIANA SMITH IN LISBON

AT LEAST nine people died in the Lisbon area over the weekend in the worst floods to hit Portugal for 16 years. In Cascais, the seaside dormitory town 30 km from Lisbon, the combination of torrential rain and pounding seas destroyed buildings and roads in the downtown area.

Over 1,000 people in Lisbon suburbs were made homeless as flood waters wrecked slum shacks and jerry-built housing projects too close to water

courses that turned into torrents under constant downpours. The drenched, homeless families that crowded into reception centres for shelter were a reminder of Portugal's "bad" and in some cases inhuman housing conditions, as Prime Minister Mario Soares put it on television.

Mr Soares appealed for calm, stressing that disasters such as these floods draw attention to Portugal's glaring shortcomings.

## Chilean opposition plans more anti-Pinochet demos

BY MARY HELEN SPOONER IN SANTIAGO

CHILE'S OPPOSITION groups, encouraged by the attendance at a mass rally on Friday against General Augusto Pinochet's regime, have indicated they will call for further protest action in the future.

The multi-partisan Democratic Alliance (DA), Chile's largest opposition group, has calculated the rally's turnout at 500,000 people, while Chilean officials have estimated that about 90,000 people attended.

Sr Carlos Dupre, a DA member, said Friday's rally marked an important turning point.

## Feldstein on inflation

MR MARTIN FELDSTEIN, chairman of President Reagan's council of economic advisers, said in Paris on Thursday that U.S. inflation was under control. An error in Friday's edition suggested he said otherwise.

## Polish economy plan unchanged

By Christopher Bobinski in Warsaw

POLAND'S PARTY leadership has judged that the relatively mild public reaction to proposed food price rises, unveiled for consultation a week ago, means that no radical changes in economic policy are required for the moment.

This is the conclusion to be drawn from the way the authorities have presented proceedings at a two-day meeting of the Party's central committee on the economy which ended here at the weekend.

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## WORLD TRADE NEWS

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## SHIPPING REPORT

## Tanker market patchy

By Andrew Fisher

THE TANKER MARKET did not ebb with any fireworks last week, as the UK investment community was being gently pressed to consider putting funds into this long-depressed sector.

Market activity, said E.A. Gibson Shipbrokers, was "anything but exciting." Inquiry in the Gulf for VLCCs and ULCCs (very large and ultra large crude carriers) was patchy.

Most large ships were chartered for the Far East, with one 210,000 tonne cargo fixed for South Korea at Worldscale 35, in line with recent levels.

In the dry cargo sector, Denholm Costa reported that the Atlantic market was stronger. The Iranians took bulk carriers on time-charter for voyages from the Great Lakes.

The arguments aimed at persuading investors to go into tankers were presented in London last week by Investa, a Norwegian investment company, and UK stockbroker Savery Millin.

A new \$46m company is being set up in Bergen to take over five big tankers formerly in the fleet of the Reksten group, which collapsed in the 1970s. Valued at their present scrap worth of some \$4m each, the ships should, it is claimed, provide a good opportunity.

Singer and Friedlander, the UK merchant bank, is also working on a scheme for investment in tankers built between 1975 and 1979; the ex-Reksten ships are 10 or more years old.

## ITT wins Yugoslav telephone contract

ITT, the U.S. multinational conglomerate, said its Belgian unit, Bell Telephone Manufacturing Company (BTM), has won a contract to supply its System-12 advanced digital telephone equipment to Yugoslavia's national telephone network, Paul Taylor writes from New York.

Under the terms of the agreement, which is expected to be ratified shortly by the Yugoslav Government, BTM will supply equipment and technology to Iskra, the largest telecommunications and electronics company in Yugoslavia.

## Jamaica to barter bauxite for U.S. dairy product imports

By Canute James in Kingston

JAMAICA and the U.S. have agreed to barter the island's bauxite for dairy products. The first 400,000 tonnes of bauxite will be exchanged for dairy products valued at \$13.6m.

The U.S. Government will add the bauxite to its strategic stockpile. The agreement brings to 3.6m tonnes the quantity of Jamaican bauxite bought by the U.S. for the stockpile in the last two years.

The swap deal is the third success Jamaica has scored in its attempt to counter-trade bauxite for imports it would otherwise have to fund with scarce hard currency. Previous agreements have been reached with General Motors and Chrysler in the U.S. to counter-trade raw and refined bauxite for meter vehicles.

Both governments have also reached an agreement which will allow Jamaica credits of \$50m to purchase lumber and commodities from the U.S. The credit package has been extended under the expert guarantee programme of the U.S. Commodity Credit Corporation and, in addition to lumber, will cover wheat, rice, corn, tallow and tobacco.

Nancy Dunne adds from Washington: The Jamaican swap deal is likely to figure more as an exception than a rule under Reagan Administration policy.

Although the rest of the 1m tonnes of Jamaican bauxite ordered is also likely to be paid for on a barter basis, senior Administration officials have recommended against reviving the kind of extensive U.S. Government barter programmes conducted in the 1950s and 1960s.

The group of officials, chaired by the treasury Secretary and including the Vice-President and

## Soviet trade gap worries French

By David Marsh in Paris

FRANCE is to ask the Soviet Union in talks in Moscow starting today for assurances of increased plant and equipment orders placed with French contractors, which have dropped sharply in recent months.

In two days of talks with her Soviet counterparts, Mme Edith Cresson, the French Foreign Trade Minister, intends to state firmly that unless Moscow steps up long-term purchases, Franco-Soviet trade is likely to become structurally one-sided.

The meeting in Moscow is the latest in the series of roughly annual gatherings of the two countries' bilateral economic commissions set up under President Charles de Gaulle.

French exports to the Soviet Union have grown rapidly this year, thanks above all to big grain sales. As a result, the French trade deficit with Moscow is expected to halve this year to around FFf 4bn (\$220m) from FFf 8.5bn last year.

The Paris Government however believes the drop is only temporary. As an indicator of a prospective slump in French sales, large Soviet equipment orders placed during the first nine months of 1983 plunged sharply to only FFf 350m from FFf 5.3bn in 1982.

## Royal visit prompts industrial link

TWO MAJOR British and Indian companies are to co-operate in research and development of heavy electrical equipment as a result of an initiative before the weekend visit here by Queen Elizabeth, John Elliott reports from Hyderabad.

The companies are GEC and Bharat Heavy Electricals (BHEL), a large public sector company which is a major producer of power station equipment and other heavy electrical goods.

## World Economic Indicators

FOREIGN EXCHANGE RESERVES (U.S.\$m)

	Sept '83	Aug '83	July '83	Sept '82
UK	3,904	3,848	3,913	10,921
U.S.	4,911	4,657	7,271	8,430
Japan	20,452	20,238	20,748	20,205
W. Germany	37,062	36,718	38,214	35,948
Belgium	3,858	4,205	4,442	3,371
Netherlands	8,477	8,722	8,944	4,581
Italy	17,670	18,107	18,579	14,184
France	18,844	18,459	15,917	11,944

Source: IMF

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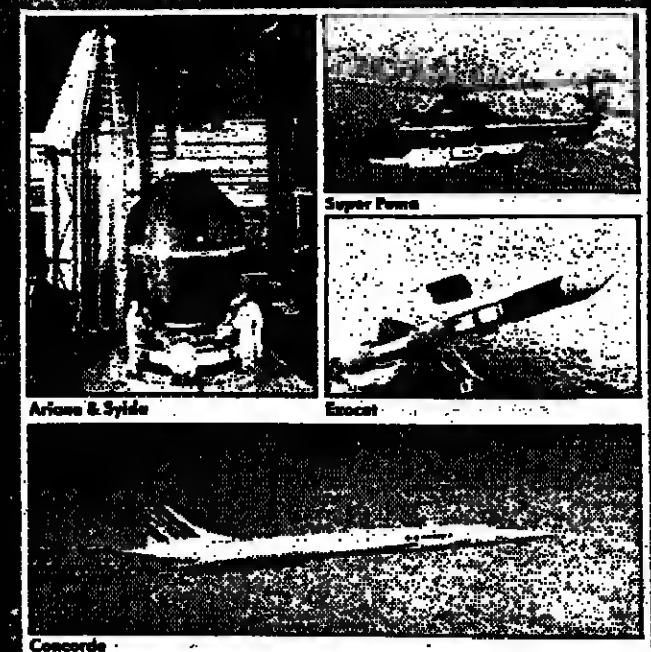
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## WORLD TRADE NEWS

## Airbus-Boeing battle heats up

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

THE BATTLE in world airliner markets between Boeing of the U.S. and Airbus Industrie of Western Europe for "new generation" airliners will start to intensify now that McDonnell Douglas has decided to stop work on its own advanced technology MD-100 and MD-90 designs, as well as on its MD-300.

The MD-100 was designed as an advanced technology medium-to long-range tri-jet airliner to replace the existing slow-selling DC-10, although the latter will continue in production for the time being.

The MD-90 was designed as a smaller aircraft, seating between 100 and 125 to fill a need below the 145-seat MD-80 (formerly the Super-80), which is still selling well. The MD-300 was a longer-term design in the prospective 150-seater market of the late 1980s and beyond.

The McDonnell Douglas decision followed an evaluation of possible launch costs and markets, which convinced the company that the time was not yet ripe for such expensive ventures.

The launch costs of all three ventures would have been well over \$4bn. It had been clear for some time, therefore, that Douglas would not be able to undertake all three, and that a choice was inevitable. Many in the aerospace industry are surprised, however, that the company has decided to axe all three.

McDonnell Douglas believes that with the world economy

THE FIRST regular transatlantic air service from Liverpool will start next May, when Wardair of Canada will fly each Saturday between Speke Airport and Toronto, via Newcastle, Michael Donne writes.

The airline will use a DC-10 tri-jet airliner and charge \$287 return for the trip. Flights will continue through to the end of September. Wardair is already an extensive operator of low-fare transatlantic flights from other UK airports.

only now painfully struggling out of a recession that has severely eroded airline earnings and slashed new jet buying, it is not yet time for expensive new ventures.

It feels that derivatives of existing jets will be adequate for a few more years and that this gives time to ensure that the next generation of jets really does provide the major jump forward in technology that will ensure their commercial success.

McDonnell Douglas will continue for the time being to offer the DC-10, suitably refined, in the long-range market, and its MD-80 in the short-to-medium-range market.

It has already secured several years' work on the KC-10 tanker-transport for the U.S. Air Force, which will ensure the DC-10 production line stays open, and several years' work on the MD-80.

Cathay Pacific Airways, the Hong Kong flag airline, is to start its first passenger service to Continental Europe between Frankfurt and Hong Kong, via Abu Dhabi, next April. The airline has a freighter service to and from Frankfurt and also flies passengers into and out of the UK.

Initially Cathay will fly three times weekly, leaving Frankfurt on Wednesdays, Fridays and Sundays. Flights will leave Hong Kong on Tuesdays, Thursdays and Saturdays.

The company is not, therefore, going out of the commercial airliner business, but is clearly taking a major, even dangerous gamble. Other manufacturers either do not agree with its basic contentions or have reservations about them.

Airbus, for example, firmly believes that its prospective A-320 150-seater is a sufficiently advanced-technology jet to be launched now, for service in 1988, which is why it is pressing for government cash support in Western Europe, and marketing the design vigorously.

Boeing, which is pushing its new Series 300 version of the 737 hard, along with its bigger 757 and 767 in the short-to-medium range market, believes that it may be able to meet the A-320 competition with a new derivative of the 737, the Series 400, with new engines and wings, if not with a

totally new venture, the "7 Dash 7".

Like McDonnell Douglas, Boeing does not want to become enmeshed in a totally new airliner design while it is still paying off the costs of the 757, 767 and 737-300, and this strengthens the view that it will eventually opt for a 737 derivative to meet the 150-seater competition from the Airbus A-320.

At the same time, Boeing now reckons that it can sweep the world long-range markets entirely. So far this year, it has won all the long-range jet orders with its 747—from Singapore Airlines, Qantas of Australia and Japan Air Lines—and is negotiating more. The DC-10 has been left out in the cold.

In the smaller jet market, for aircraft of around 100 seats, the McDonnell Douglas decision to stop work on the MD-90 must give British Aerospace a big new opportunity to sell its four-engined 146 regional jet airliner worldwide through the rest of this century.

The McDonnell Douglas decision has cleared the decks for the rest of the major manufacturers. If McDonnell Douglas sees a spate of new orders going to the other companies, it may be forced to change its mind and resuscitate some of its ideas. The risk that it might be too late, and could be cut out of some markets for ever, is one that McDonnell Douglas seems prepared to take.

UK aviation crunch, Page 17  
Editorial comment, Page 16

## Paper industry boost for American South

BY WILLIAM HALL IN NEW YORK

THE U.S. PAPER industry, which accounts for about a third of world production, plans to increase its capacity by an average 1.5 per cent over the next three years, at an annual cost of \$6bn. Paper and board capacity in all grades is scheduled to rise from just over 73m short tons now to 77m short tons by 1986.

Slightly under two thirds of the new capacity will be installed in the southern part of the U.S., which already accounts for 53 per cent of the country's paper making capacity. Paper and board mills in the north, which account for 15.9 per cent of existing capacity, will increase their capacity by only 11.8 per cent in the period up to 1986 and mills

in the west, which account for 14.8 per cent of capacity will increase theirs by 8.4 per cent. The forecasts are published in the latest annual survey of capacity by the American Paper Institute. Capacity has increased by an average of 2.3 per cent over the past 16 years and the API says that the effort of the recession on the amount of internally generated cash flow has behind the modest plant expansion plans.

The industry's cash flow, measured by retained earnings plus depreciation, peaked in 1979 at just under \$6bn. Since then capital spending on capacity increases and modernisation has comfortably exceeded the ability of the industry to finance itself. The API fore-

## U.S. PAPER AND BOARD CAPACITY

Annual capacity increase (%) (all grades, in short tons)		
1980	70.7	2.4
1981	72.3	2.2
1982	72.1	1.2
1983*	72.7	0.8
1984*	74.9	1.6
1985*	75.9	1.5
1986*	77.0	1.4

\* Forecast.  
Source: American Paper Institute

casts that the industry's cash flow in the current year will total just under \$4bn, compared with capital spending of \$6bn. The fastest growing area of the industry is the production

of printing and writing papers and net additions to capacity will total 1.55m short tons, an average growth of 2.8 per cent a year. Total papermaking capacity is scheduled to rise by 2m short tons, or an average rate of 1.9 per cent a year.

Tissue making capacity, another fast growing segment of the industry, is scheduled to rise by 0.4m short tons, an average annual increase of 2.3 per cent. By contrast, newsprint capacity, which has been growing rapidly in recent years as new machines in the south were brought on stream, is scheduled to rise at an annual rate of only 1.3 per cent, giving an additional 0.2m short tons of capacity by 1986.

The energy crisis has made the lowering of automobile fuel consumption a major objective. One of the first steps is to reduce an automobile's weight. That's why Rhône-Poulenc has developed high performance materials lighter in weight, but robust in performance.

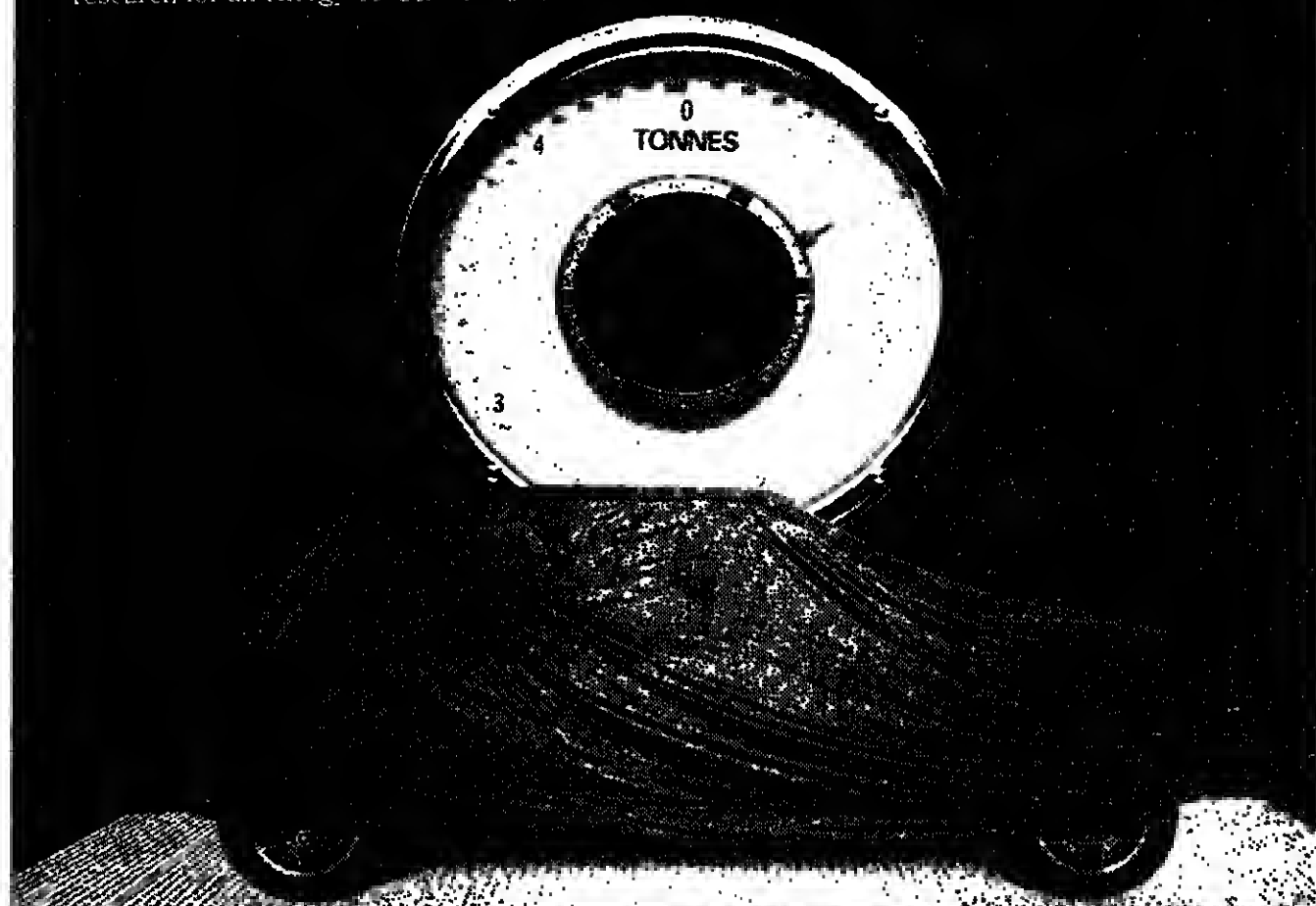
One of these materials, Technyl polyamides, is currently employed by Renault, Peugeot S.A. and other automobile makers in radiators, gear box caps, and other parts of the automobile.

Another Rhône-Poulenc composite used in jet engines, Kinel polyimides, is resistant to temperatures as high as 250°C. Applications in automobiles include piston skirts, synchronizing rings, vacuum pump vanes. Kinel and Technyl are just two examples of Rhône-Poulenc's research for an energy-conscious world.

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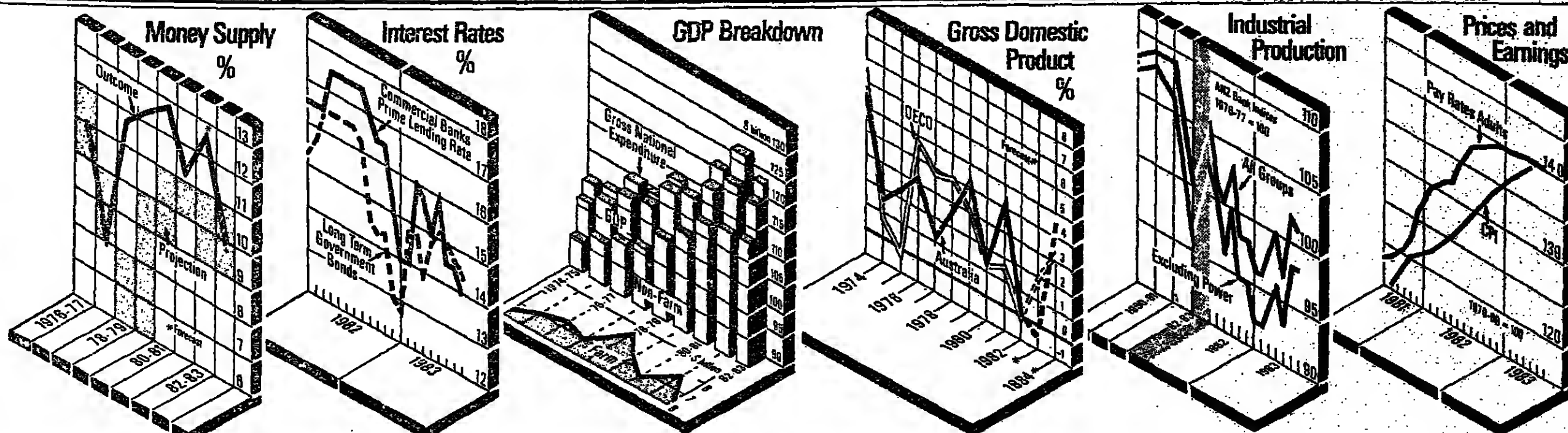
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	SEAT WIDTH	DISTANCE BETWEEN SEATS	LOUNGE	OPEN BAR	COPYING MACHINE	
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ALITALIA	19 1/2"	35"	■	■	■	20%
BRITISH AIRWAYS	24"	35"	■	■	■	117%
JAPAN AIR LINES	20 1/2-24"	34-37"	■	■	■	12 1/2%
KLM	18"	37-38"	■	■	■	14%
LUFTHANSA	18"	37"	■	■	■	6%
NORTHWEST ORIENT	19-21 1/2"	34-56"	■	■	■	10%
PAN AMERICAN	19 1/2"	34-37"	■	■	■	12-26%
SAS	19"	38"	■	■	■	0
SINGAPORE	19 1/2"	36"	■	■	■	10%
THAI	23"	42"	■	■	■	12 1/2%
TWA	21"	38"	■	■	■	22-50%

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## STATISTICAL TRENDS: AUSTRALIA



## Inflation and drought put brakes on economic growth

THE AUSTRALIAN economy has been through a severe downturn over the past two years. The combination of high inflation and the prolonged sluggishness of the world economy caused a serious weakening in activity and employment. The fall in activity was much deeper than expected and contributed to a substantial overrun on the budget deficit.

There was great volatility in interest rates and external flows, particularly in the weeks immediately before and after the March federal elections.

Australia recorded an overall balance of payments surplus of A\$2.430m in 1982-83. This was the net outcome of a deficit on current account of A\$6.960m and net capital inflows of A\$9.390m. The major influences on the current account balance were the decline in spending, the continued sluggishness of

international trade and the drought. Devaluation of the dollar improved competitiveness with the dollar's trade-weighted value in 1982-83 about 10 per cent down on the previous year.

Exports of goods were up 9 per cent in volume terms mainly as a result of higher Australian dollar prices for non-form commodities. There was also some increase in the quantities of non-form commodity exports. In contrast, farm goods exports saw little change in prices and a small decline in volume.

The budget deficit has widened rapidly from A\$500m in fiscal year 1981-82 to A\$4.5bn in 1982-83. The projection for 1983-84, given in the government's first major budget in August, is for A\$8.4bn. Outlays are expected to grow by nearly 16 per cent, while receipts are projected to rise by only about half this rate.

The rapid rise in unemployment has now slowed, but is likely to rise further. The labour force is set to expand this year despite immigration restrictions. Areas likely to be especially weak in employment are manufacturing, construction and the wholesale and retail trade.

The issue of uranium mining has again been prominent. A compromise was reached in early November giving the go-ahead to the new uranium-copper-gold project in South Australia, but deferring further development of other sites, and ruling out the immediate development of any other new mines.

Following the downward reassessment of U.S. reserves, Australia is now considered to possess about 20 per cent of the West's economic uranium reserves.

The picture for agriculture has been disastrous due to four successive drought years, with rural production falling by 50 per cent in real terms in 1982-83. Ironically, since the rains, the problem facing Australia is likely to be a record wheat harvest. Farmers have tried to recoup drought losses quickly by planting a bigger wheat crop. But it seems probable that other wheat growers, including Australia's customers, are also going to have bumper harvests.

Foreign investment in Australian enterprises has risen substantially in the last decade, to reach 6.4 per cent of gross domestic product (GDP).

As an economy, Australia has a considerably lower ratio of imports to GDP than other small OECD economies, and lower than the major ones except the U.S. and Japan.

## Foreign Investment

In Australian Enterprises	As proportion of GDP	Net private investment expenditure
72-73	1.1	10.8
73-74	1.0	7.5
74-75	1.6	13.2
75-76	1.2	10.5
76-77	1.9	15.7
77-78	1.5	16.2
78-79	2.0	17.5
79-80	2.7	22.2
80-81	4.4	34.1
81-82	5.4	44.0

Source: ABS

## Uranium (U3O8)

Year	Production (tonnes)	Exports (tonnes)	Value (\$'000)
1979	832	1,217	102,275
1980	1,841	1,210	98,399
1981	3,446	1,825	120,044
1982	5,251	5,277	415,047

Source: Bureau of Mineral Resources

## Share markets

Share Price Indices	31 Dec 1979=100	Avg. div. yield % p.a.	Average daily turnover of equities (\$m)
All Industrials	855.2	6.86	6.08
30 June	855.2	6.86	6.08
31	760.0	6.75	5.83
32	641.3	5.48	5.05
33	744.8	4.89	6.25
July	772.7	5.90	13.60
Aug.	826.0	6.25	12.55
Sept.	876.2	6.80	8.74

Source: Sydney Stock Exchange; Australia Stock Exchange Journal

## Commonwealth budget transactions

Year	Outlays (\$'bill)	% change	Receipts (\$'bill)	% change	Deficit (\$'bill)
1978-79	29.0	8.5	26.5	8.1	2.5
1979-80	31.7	9.1	28.5	11.5	3.2
1980-81	36.3	14.5	36.2	18.7	1.1
1981-82	41.3	13.9	40.5	16.9	0.8
1982-83	49.0	18.5	44.5	9.1	4.5
1983-84	56.7	15.8	48.3	8.5	8.4

Source: Treasury Dept

## Exports by Destination

Year ended June 1983	% of total
JAPAN	27.1%
USA	10.1%
UK	5.3%
OTHER	5.7%
NEW ZEALAND	5.2%
OTHER	28.0%

## Industrial production

Year	Portland cement	Black coal	Raw steel	Gas	Cars and light trucks	Woolen yarn
1975	418.1	5,585	853.8	15.8	25.2	1,855
77	418.6	5,520	809.4	20.4	25.4	1,969
79	418.9	5,528	877.1	24.2	24.6	1,702
81	502.4	5,408	836.4	24.9	28.8	1,647
82 Q1	446.7	7,067	596.1	30.3	27.1	1,413
Q2	525.0	9,712	616.0	35.6	34.5	1,770
Q3	491.7	9,823	511.7	42.1	37.2	1,710
Q4	452.3	9,234	390.6	32.5	27.5	1,479
83 Q1	362.0	8,077	406.0	30.6	20.7	1,214
Q2	386.0	8,146	451.1	38.6	23.4	1,537

Source: ABS

## Exports - goods/services

Year	Rural	Non-rural	Services	Total
1979-80	2,108	2,680	783	5,532
1980-81	2,142	2,487	739	5,368
1981-82	1,783	2,629	721	5,133
1982-83	1,822	2,572	741	5,135
1983 Q1*	1,643	2,571	245	4,459
1983 Q4*	1,703	2,634	762	5,099
1984 Q1*	2,062	2,778	759	5,599
1984 Q1*	1,969	2,883	785	5,637

Source: ABS &amp; IAFSR

## Trade

Year	Imports (\$'bill)	% change	Exports (\$'bill)	% change	Balance (\$'bill)
1979-80	13.0	5.1	10.5	5.1	2.5
1980-81	13.0	10.0	10.5	7.4	2.5
1981-82	13.0	10.0	10.5	7.4	2.5
1982-83	13.0	10.0	10.5	7.4	2.5
1983 Q1*	1.1	0.6	2.4	0.4	1.3
1983 Q4*	4.9	0.3	0.4	0.4	4.5
1984 Q1*	2.2	-2.3	0.4	0.4	1.8

Source: OECD July 1983 forecasts

## Imports

Year	Imports (\$'bill)	% change	Exports (\$'bill)	% change	Balance (\$'bill)
1979-80	13.0	5.1	10.5	5.1	2.5
1980-81	13.0	10.0	10.5	7.4	2.5
1981-82	13.0	10.0	10.5	7.4	2.5
1982-83	13.0	10.0	10.5	7.4	2.5
1983 Q1*	1.1	0.6	2.4	0.4	1.3
1983 Q4*	4.9	0.3	0.4	0.4	4.5
1984 Q1*	2.2	-2.3	0.4	0.4	1.8

Source: IMF National Accounts data, local currencies

## Labour market

Year	Employment ('000)	Unemployment ('000)	Unemployment %
Aug. '82	6,382	6,983	7.0
Nov. '82	6,342	6,943	8.7
Feb. '83	6,277	6,947	8.8
May '83	6,268	6,979	10.3
Aug. '83*	6,280	7,019	10.3
Nov. '83*	6,208	7,084	10.7
Feb. '84*	6,341	7,008	10.0
May '84*	6,389	7,149	11.0

Source: ABS &amp; IAFSR

## Exchange rates

	Trade-weighted index	Real effective rate <sup>a</sup>	U.S. \$ against Aus\$
1980	J 97.4	103.8	69.6
	F 96.2	103.7	69.2
	M 89.3	98.3	60.5
	A 87.5	94.3	79.2
	M 86.2	94.6	80.2
	J 89.4	96.8	80.0
	J 83.6	87.5	79.3
	A 81.5	89.7	80.2
	S 82.1	100.6	80.9
	O 90.2	n.a.	83.4

<sup>a</sup>W.I. adjusted for wholesale prices of non-food manufactures, 1980-82=100  
Source: Morgan Guaranty Trust Co.



## UK NEWS

## Engineering steel prices to rise by 4-7%

BY NICK GARNETT AND IAN RODGER

BRITAIN'S depressed engineering industries are braced for an announcement this week of a 4 per cent to 7 per cent rise in low alloy steel prices from the British Steel Corporation, the leading supplier of these products.

These would be the first price increases on engineering steels in two years, but there is considerable apprehension that they could weaken the competitive recovery of Britain's engineering industries.

Engineering steels are used for some of the hard-wearing parts of vehicles and other engineered products, such as drive shafts, axles, wheels and various types of fasteners.

The motor manufacturers, which have been campaigning to cut component costs, can be expected to resist the absorption of any significant increase in steel prices.

BSC, for its part, is worried that its prices might move out of line with those of French, West German and Italian competitors, which have been very active in the British market. Imports account for about 15 per cent of sales.

However, the corporation's costs have been rising, and will continue to rise, notably because of the recent announcement by the Government of higher gas and electricity prices.

Mr Bill Garner, chief executive of Glynwed's steel division, a major processor and stockholder of engineering steels, said, "the increase in steel prices is something we could have done without. It is very frustrating, because a lot of us have seen an encouraging trend in the market for the first half of next year, but they certainly must not duplicate it later in the year."

Mr Garner thought that the market could sustain a 4 per cent increase in the first half of next year, but they certainly must not duplicate it later in the year.

BSC's move comes at a delicate moment politically. The corporation and Glynwed, the other major UK engineering steel producer, recently received clearance from the Office of Fair Trading to acquire control of Lorih's Hatfields steel business in Sheffield. They are expected to close Hatfields shortly.

### RADIOACTIVE DISCHARGE ON BEACH

## Inquiry ordered into nuclear plant waste

BY JOHN GRIFFITHS

THE GOVERNMENT is to launch an immediate investigation into the contamination of a beach by radioactive waste from the Sellafield (formerly Windscale) nuclear reprocessing plant operated by British Nuclear Fuels (BNFL).

Although the beach, in Cumbria, north west England, was reopened to the public yesterday, Mr William Waldegrave, the junior Environment Minister, said last night he was not satisfied that BNFL has been meeting "the high standards which now exist."

While this weekend's contamination had not exceeded safety limits "We shall assign inspectors to see how it happened. It may have been an accident, but it does not seem a very satisfactory situation."

The beach was closed on Saturday morning, after low-level contamination had been found. A statement by BNFL last night said: "The small amount of contaminated material that was collected has been removed for disposal."

The material was part of waste routinely discharged into the sea by a pipeline extending 1½ miles. BNFL said the problem had been caused by two unusual circumstances, a solvent being used for plant cleaning had accompanied the

discharge, "and in unusually calm weather this formed into a surface slick."

A spokesman said the slick had been spotted on Thursday, and continuous water sampling monitoring of the beach had taken place since Friday morning. The radioactivity measured within the discharge was "within normal authorisation from the regulatory agencies."

"We keep within the limits of discharge authorised and have in any case been steadily reducing both the amount and radioactive level of the discharges."

He dismissed as "rubbish" claims by the Greenpeace environmental organisation that BNFL would not have publicised the solvent slick if Greenpeace had not reported it first. According to Greenpeace the slick was the second in the area in a week.

The organisation claimed that a dinghy monitoring the discharge last Monday has recorded abnormally high radioactivity.

The physician Sir Douglas Black is heading an investigation into allegations made on Yorkshire Television that there is an abnormally high incidence of leukaemia and other cancers in the population around Sellafield.

### MOTOR TRADES STILL PESSIMISTIC AS OCTOBER ORDERS FALL

## Consumer spending sustains pace

BY DAVID CHURCHILL, CONSUMER AFFAIRS CORRESPONDENT

THE LEVEL of economic activity in the distributive trades remains buoyant, according to the fourth joint CBI and Financial Times Survey of the Distributive Trades published today.

The survey, conducted between October 21 and November 13, had the highest response so far from CBI members. Some 878 responses were received, of which 363 were from wholesalers, 265 from retailers, and 50 from motor traders.

In spite of this increased response rate the CBI points out that the short time the survey has been operating means that not too much should be read into the results at this stage and their interpretation must remain somewhat tentative.

In addition, the end of October survey was only a short monthly enquiry, asking simply about the volume of sales, stocks and orders in comparison with a year earlier. The end of November survey will be a more extensive quarterly survey covering investment intentions, expectations for the general business situation, prices, employment and changes in import penetration. It will be published shortly before Christmas.

However, this month's survey clearly shows that the higher level of consumer spending in the shops reflected in Government figures is

continuing. The increase in sales volume reported by companies in the year to October was the highest year-on-year increase recorded by the survey. A similar increase is predicted for the year to November.

The survey shows significant increases in sales volume being reported by retailers, while more wholesalers also reported sales volume increases. Only in the motor trades is the situation much less buoyant. In September and October, sales volume fell in comparison with a year earlier and with participants' prior expectations.

The volume of orders placed by distributors also showed significant increase in the year to October. Increases were most widely reported in wholesaling, while orders placed by motor trades distributors fell in the period from October last year to October this year.

The survey also indicated that the volume of stocks held by distributors had increased in the year to October. However, as in previous surveys, the increase in volume of stocks was less than the rise in sales volume in both wholesaling and retailing.

Analysis of the survey figures gives the level of trade for each main group.

Retailing: Some 76 per cent of retail companies in the survey reported that the volume of sales was higher in October this year than

last year, while 14 per cent reported that trade was down. This gives a percentage balance (calculated from subtracting the figure for those reporting a higher level from those reporting a lower level) of plus 62 per cent.

This balance was slightly lower than had been expected in September, but is broadly in line with the official index of retail sales volume published by the Government. Last week, these figures showed that the provisional index of retail sales volume for October was 115.5, compared with 117.3 in September.

Looking ahead, retailers are highly optimistic about a further increase in sales compared with the same month last year, as the build-up to Christmas starts. Some 79 per cent of the retailers surveyed expected sales volume to be higher next month in comparison with last year. Only 5 per cent expected sales

volume to be lower, while 15 per cent thought it likely to be the same. This is the highest level of expectations about sales volume from retailers since the survey began.

The volume of orders placed by retailers in October was significantly higher than in the same month a year ago. The balance was plus 49 per cent. This was broadly in line with retailers' September predictions. A similar increase is forecast for the year to November.

The results for this sector suggest a more buoyant situation in wholesaling than indicated in the previous three surveys. Some 77 per cent of the sample reported a higher volume of sales in October, with only 7 per cent reporting a downturn in comparison with the same month last year. This gives a balance of plus 70 per cent, and contrasts sharply with the expected balance in September of only plus 32 per cent.

## TUC asked for help over printing dispute

BY PHILIP BASSETT, LABOUR CORRESPONDENT

THE TRADES Union Congress (TUC) is to be asked today for its help in resolving the dispute at the British Printing and Communications Corporation's Park Royal plant in north London following the decision at the weekend by Mr Robert Maxwell, BPCC's chairman, to dismiss the plant's employees.

This fresh development in the long-running BPCC wrangle came as talks went on with the Advisory, Conciliation and Arbitration Service (Acas) over a separate print dispute at the Messenger Group of newspapers near Manchester.

Both disputes pose a threat to the Government's labour legislation - the BPCC stoppage because of the secondary picketing being practised by the general print union Sogat 42, which threatens to get worse today, and the Messenger dispute because of the expected defiance by the craft union, the National Graphical Association (NGA), of a court fine of £50,000 for contempt.

The outcome of the Acas talks in the Messenger dispute, looked gloomy last night. The NGA seemed unwilling to alter its insistence that the group's new titles should have a closed shop with the union, and the group under its chairman Mr Eddie Shah, looked set to maintain its view that there should be no such provision.

Acas officials, led by Mr Dennis Boyd, chief conciliation officer,

managed to draw both sides together in talks yesterday, but progress was slow.

The NGA is likely to maintain its picketing of the group's premises in Warrington, despite last week's fine by a Manchester court for its failure to comply with an injunction to halt its activities.

The TUC's employment policy committee is expected today to urge the NGA to comply with the court's decision, though in turn the NGA national council tomorrow is thought likely to refuse to do so, placing at risk of sequestration the union's funds.

Local NGA officials have acknowledged that unemployed union members are being given living expenses for maintaining the picket line at the Warrington plant, at a rate of £20 plus some money for drinks. Some of the unemployed asked to take part refused even though they claimed that three days picket duty would have stripped their sole money.

In the BPCC dispute, which is expected to be discussed by Sogat's executive council today, Mr Maxwell said yesterday that he would be contacting Mr Len Murray, TUC general secretary, today over the dispute at the Park Royal plant. Machine assistants and electricians at the plant are in dispute over manning and wages levels.

## Shell pickets threaten airport refuelling

BY PHILIP BASSETT, LABOUR CORRESPONDENT

AIRCRAFT REFUELLING at London Heathrow and Birmingham airports will be threatened today as a result of a decision by shop stewards at a strikebound Shell UK oil refinery to extend picketing of the company's sites.

While the extension of the picketing clearly raises the option for the company of trying again to enforce the court injunction it obtained against refinery workers at Stanlow Cheshire, to stop secondary picketing, stewards were confident last night that the force seemed to have left. Shell's legal initiative. They were buoyed by indications of the company's embarrassment about its lack of success.

The Stanlow stewards met to consider the decision by Shell's 1,750 oil tanker drivers to call off from this morning their five-day-old overtime ban and work-to-rule. Their stewards are now recommending acceptance of a slightly improved pay offer, based on increases of 4.5 per cent.

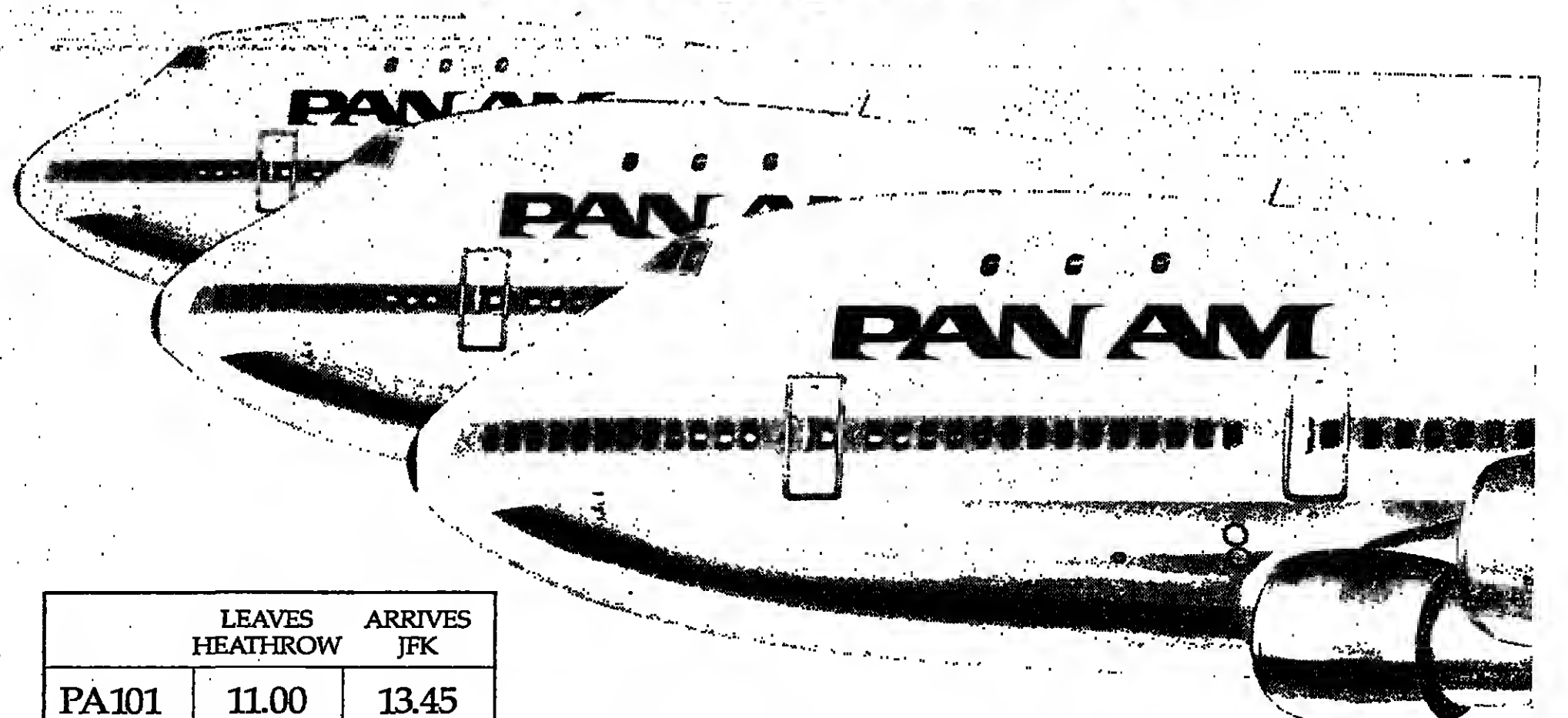
Stewards for the refinery workers accept privately that this decision - especially if the drivers accept it - places great pressure on Shell's refinery workers to end their four-week-old dispute over a similar pay offer.

However, the Stanlow stewards decided yesterday that refinery workers had originally begun a campaign against their offer without support from the drivers, and that if the drivers now settled they would continue with their own campaign.

Shell was unsure last night about the likely effect on aircraft fuel supplies, preferring to wait until it could assess the effect of today's action.

Picketing at Heathrow may be difficult because the airport's supplies are piped to a distribution depot, and not delivered by tanker. This depot is well inside the Heathrow site and pickets may decide to mount their operations at the airport boundary.

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## UK NEWS

## IMPORT THREAT TO MILK DELIVERIES "EXAGGERATED"

## Dairymen whip up defence of a British tradition

BY RICHARD MOONEY

THE LIFE expectancy of the British milkman has been in doubt ever since the European Commission first cast an unfriendly eye on Britain's protected market for liquid milk some years ago.

The threat that Continental milk will be allowed into the country to compete with supplies from the Milk Marketing Board was publicised from the outset by the country's dairy industry as tantamount to a death warrant for this much-loved British institution.

The appearance of French-produced UHT (ultra heat treated) milk on British supermarket shelves at prices 5-7p a pint lower than the delivered price would, it was argued, destroy the doorstep delivery market. Many of the 75,000 people employed in the country's milk processing and distribution industry would be thrown out of work and people living in remote areas would have to go without their milk because they were unable to get to the shops.

If only 10 per cent of people switched from delivered milk to shop-bought milk the doorstep de-

livery system would become uneconomical and would die out, the Dairy Trade Federation (DTF) claimed.

The battle was effectively lost back in February when the European Court ruled, as expected, that a blanket ban on milk imports was an "excessive" method for protecting against human and animal health risks.

A half-hearted rearguard action aimed at retaining some realistic market protection ended last Thursday when the House of Commons voted by a considerable majority to allow milk imports while erecting only relatively modest barriers in the form of health checks and packaging and labelling requirements.

The DTF was particularly disappointed that Parliament decided to abide not just by the letter of the European Court ruling - by allowing UHT milk imports - but also by its spirit - by opening the door to sterilised milk and frozen UHT cream imports as well.

Still licking its wounds, the dairy trade has now managed to adopt a more constructive approach to the new situation. Gone are the scare

stories about the disappearance of the doorstep pint of milk and widespread job losses. "We must now concentrate on competing with cut-priced Continental milk," said a DTF official.

And it is playing down the threat to its market share. "The British consumer does not like UHT milk," said the official, pointing out that UHT still had only a 1 per cent share of the UK market. Continental UHT will be cheaper, because its production is subsidised and health standards are less strictly enforced, the DTF says, but it is optimistic that the challenge to its market can be fought off.

"The impact of cut-priced UHT milk has already been blunted somewhat by appearance of British-style milk at discounts of up to 3p a pint in some supermarkets," the DTF official added.

But there is no denying that the imported milk will tend to quicken the drift away from the doorstep. In 1982/83 less than 84 per cent of the 8,134m litres of milk sold in England and Wales was delivered to the door.

## Fiat UK in line for profit this year

By Kenneth Gooding, Motor Industry Correspondent

FIAT's subsidiary in the UK will be marginally profitable in 1983 compared with £4m loss last year, Mr Peter Quaglia, managing director of the British company, says.

Fiat Auto (UK) has, therefore, recovered from record losses of £48.4m in 1980. Only two years before, in 1978, its profit peaked at £5.43m.

The company has changed shape this year, however, because the Lancia car business was separated from Fiat Auto (UK) and is now handled by a Lancia group subsidiary. Lancia is a wholly-owned offshoot of the Italian group.

In the past nine months Fiat Auto (UK) has been significantly restructured, a process which resulted in a 23 per cent reduction in jobs. The company now employs 372.

Mr Quaglia claims that the dealer network has doubled its profitability this year compared with 1982 after extensive pruning and strengthening. He expects that Fiat Auto's vehicles sales in Britain will improve this year by about 12 per cent from about 44,000 in 1982.

Registrations of cars along by the end of October increased from 39,013 to 42,197. However, as the improvement did not keep pace with the 16 per cent jump in total new car sales, Fiat's car market share fell from 2.84 to 2.64 per cent.

Mr Quaglia forecast a steady improvement in annual sales as new products are introduced to the UK. Next year he believes Fiat will claim "well over" 3 per cent of the market, because the new "Supernova" the Uno, will be available for the full year (and should account for 30 to 35 per cent of total sales in 1984) and the new family-sized Regata saloon will be launched in Britain next March.

Portuguese-built, four-wheel-drive vehicles in direct competition with BL's Land Rovers have been launched in Britain.

The import company has so far taken delivery of 150 vehicles from the UMM group in Portugal and expects to sell about 600 in the first full year of operation. Mr Mike Thompson, who is behind the scheme, said yesterday that nearly £1m had been put into the import business, called Transferran.

## Tory strategy criticised

BY PETER RIDDELL, POLITICAL EDITOR

THE AIMS and themes of the Government should be presented in a more positive way, Mr David Howell, the former Transport Secretary, argued yesterday.

He told a Conservative Party conference in Colchester, Essex, that his concern was with "spreading the ownership of shares and bonds, encouraging employee share ownership, home ownership, more effective dispersal of state assets into private hands, and greater free-

dom for individuals in investing the funds accumulated for their pensions."

In particular, he argued for "very vigorous steps now," particularly through tax reform and reductions, to reverse the decline in personal share ownership.

Since he was dropped from the Cabinet after the June general election, Mr Howell has adopted the role of "candid friend."

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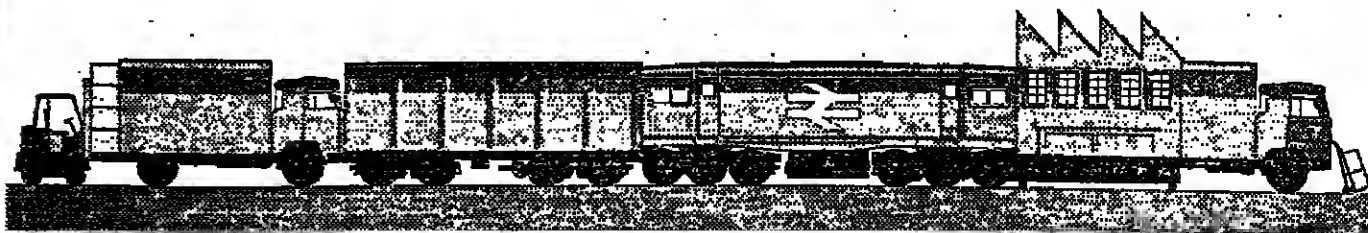
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A special information kit on the Falcon 100, 200 and 50 has been prepared. To obtain it, please send your card to Paul Delorme, Dassault International, 27 rue Victor Pauchet, 92420 Vaucresson, France, or just call him at the following number: (1) 741.79.21.

**Dassault International**

**Business takes off with Falcon**



## BUSINESSMAN'S DIARY

## UK TRADE FAIRS AND EXHIBITIONS

Nov 22-24  
Entertainment 83 (Eastbourne  
(0233) 37641) Harrogate

Nov 27-Dec 3  
International Building and Construction Exhibition - INTERBUILD (01-498 1851) N.E.C. Birmingham

Nov 28-Dec 1  
Health and Safety at Work Exhibition (01-688 7783) Wembley Conference Centre

Nov 28-Dec  
World Travel Market (01-643 8040) Olympia

Dec 1-4  
Bristol Bicycle Show (Bristol (0372) 650465) Exhibition Centre

Dec 5-8  
Royal Smithfield Show and Agricultural Machinery Exhibition (01-235 9315) Earls Court

Dec 13-15  
Automatic Testing and Test Instrumentation Exhibition and Conference (Market Hill, Bucks (02802) 815226) Brighton

Dec 14-15  
Exhibition and Conference Industry Trade Event (Shepperton (09322) 43866) Cusard International

Dec 15-18  
Your Computer Christmas Fair (01-643 8040) Wembley Conference Centre

Jan 4-5  
Caravan, Camping, Holidays and Travel Exhibition (Bristol (0272) 650908) Bristol

Jan 4-15  
London International Boat Show (Weybridge (0932) 54511) Earls Court

Jan 7-12  
Harrogate International Toy Fair (01-226 6553) Harrogate

Jan 16-19  
Pipelines, Pipework, Pumps and Valves Exhibition and Conference (01-637 2400) NEC, Birmingham

## OVERSEAS TRADE FAIRS

Nov 18-22  
Arab-Build '84 - fourth Middle East Building and Construction Show and Conference (01-498 1851) Bahrain

Nov 22-24  
British Engineering Products and Services Exhibition (01-729 6077) Amsterdam

Dec 2-5  
Autumn/Winter Ready-to-Wear Fashion Fair - PORTEX (01-493 0212) Porto, Portugal

Dec 5-10  
International Chemical Industries Exhibition - INTERCHIMIE (01-498 3964) Paris

## BUSINESS AND MANAGEMENT CONFERENCES

Nov 22-24  
BIM: Managing in tomorrow's world (Corry Northants (053 63) 4222) Piccadilly Hotel, W1

Nov 24  
Henley Centre: Forecasts of leisure time activities and spending (01-553 8961) Cumberland Hotel, W1

Nov 29-30  
FT Conference: World telecommunications (01-621 1355) Royal Lancaster Hotel, W2

Dec 1-2  
FT Conference: Venture capital financial forum (01-621 1355) InterContinental Hotel, W1

Dec 6-8  
CSP: Containerisation Asia 1983 (01-430 3811) Hong Kong

Dec 6-8  
FT Conference: World banking in 1984 (01-621 1355) InterContinental Hotel, W1

Dec 7  
First annual European methanol conference (Houston 712/662-0676) Brussels

Dec 7  
Chatham House: American economic policy and transatlantic trade (01-430 2233) Chatham House, SW1

Dec 7-8  
Lloyd's Shipping: tankers - anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

where's the miracle? (01-547 9461) Press Centre, EC4

Dec 8-9  
International Herald Tribune/Oil Daily: Oil and money in the eighties (Neuilly Cede France (33-1) 767 1285) Park Lane Hotel, W1

Dec 11, 12  
MEED: banking in the Arab Gulf (Bahrain 248247) Bahrain

Dec 14  
Circuit Plan: Cable television (01-221 5417) Park Lane Hotel, W1

Dec 14  
Eurofi and the BOTB: European Development Fund (Northill Beds (078727) 680)

Dec 14-16  
IFHP/TULA: Changing roles for local and regional government in environmental management (70-244877) Maastricht, Netherlands

Dec 15  
RSC: acquiring a company (01-640 2273) Kensington Palace Hotel, W8

Jan 1  
CIV: equal pay for equal value (01-579 7400) Centre Point, WC1

Jan 12, 13  
Brunel Management Programme: alternative futures - using scenarios in strategic planning (Uxbridge (0895) 56461) Brunel University, Uxbridge

Jan 16, 17  
FT Conference: aerospace in Asia and the Pacific basin (01-621 1355) Singapore

## UK NEWS

## Greater energy competition predicted

By Maurice Samuelson

BRITAIN'S energy market in 1993 will be characterised by rival fuels competing keenly for industrial and commercial customers, according to a new set of energy forecasts.

They suggest that shortages will stem not from lack of energy supplies, but from lack of customers to use all the available forms of fuel.

The forecasts, by Mr James Buckley, senior consultant of Cambridge Information and Research Services (CIRS) also underline the quandary of Britain's fuel utilities faced with Government pressures for higher prices when the customer increasingly dominates the market.

Consumers can apparently expect to be reasonably well assured of access to all forms of energy throughout the coming decade, assuming no major world hostilities. In addition to being able to engage in keen purchasing, they will be able to demand better service from the fuel suppliers.

Called "The Energy Markets to 1995", the CIRS report foresees a lower growth rate in the UK energy market than that predicted by the Energy Department's evidence to the inquiry on the proposed Sizewell B nuclear power station.

Government projections of energy demand by the year 2000 ranged from 398m tonnes of coal equivalent (mte) to 431mte. The CIRS projections for 1995, calculated on what it calls a useful heat basis, range from 327 to 358mte.

The CIRS forecast for the industrial market for energy is particularly bleak. Even in the most optimistic of its three scenarios, it sees no chance of the industrial market recovering from the 25 per cent drop in energy demand which occurred between 1979 and 1982.

Instead it expects consumption in 1995 to remain at 21 per cent below that of 1979, while the low growth projection shows no net increase in consumption between 1982 and 1995.

The report blames the poor outlook for greater industrial energy use on the steady change from relatively fuel-efficient heavy industry to light industry and services. Where growth prospects do exist, the report says they are likely to be offset by the effects of greater investment in energy conservation.

The flat growth pattern also conceals the contrasting fortunes of the different fuels. In the industrial market, CIRS expects gas to increase its share from 33 per cent to 38 per cent by 1990, easing back to about 33 per cent by 1995.

Solid fuel, including coking coal, has lost 31 per cent of its market in the past three years. Its share is expected to improve from the current 21 per cent to 25 per cent by 1990, with a further rise to 28 per cent by 1995.

Oil emerges as the main loser in the industrial market. Its use is expected to decline to about one fifth of the industrial load by 1995, having dropped by 37 per cent in the three years to 1982.

## When these go wrong, which gets repaired first?

Everyone has a horror story about the time it takes for an engineer to call to repair their washing machine or other domestic appliances. Repair charges are heavy too.

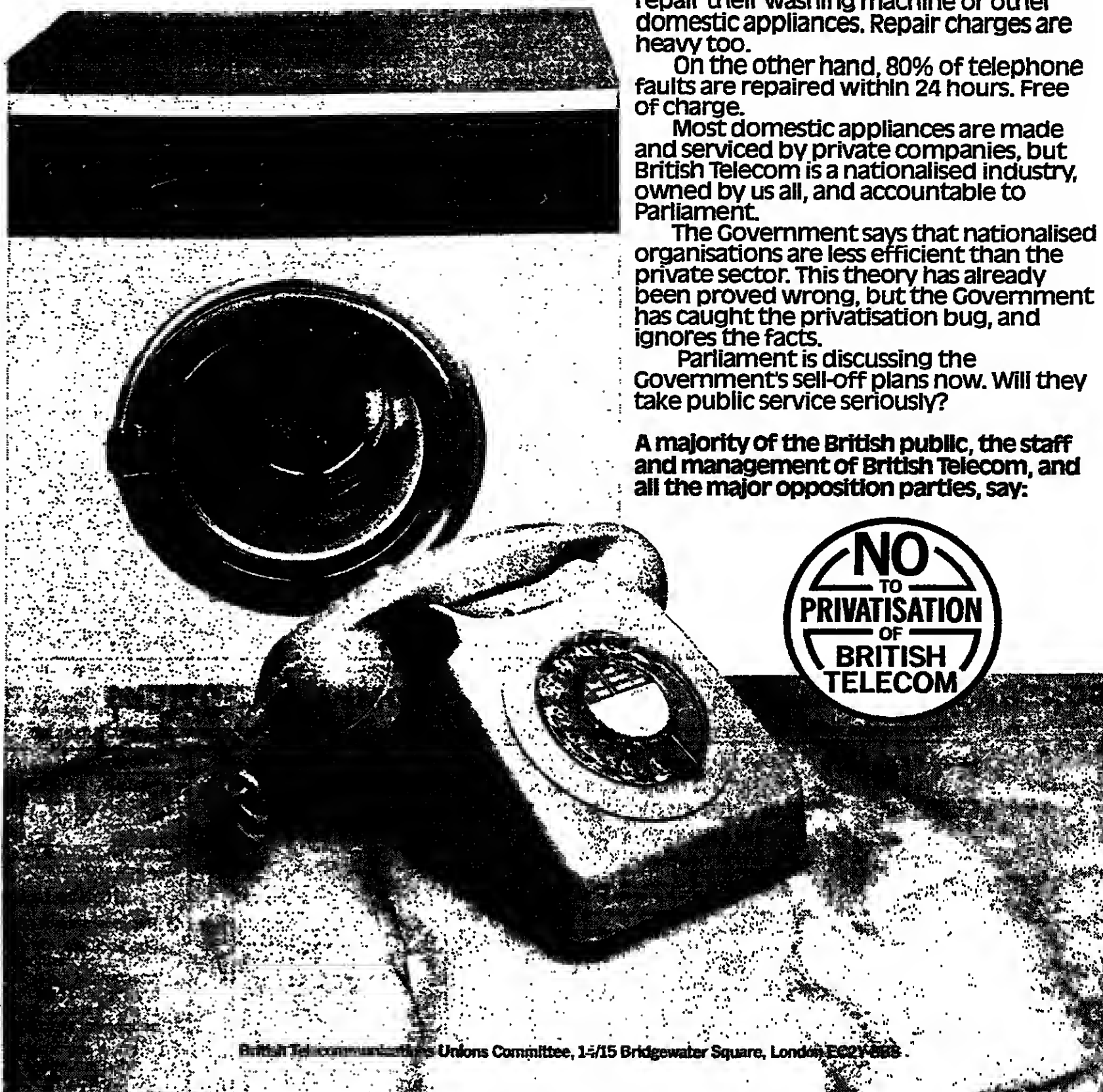
On the other hand, 80% of telephone faults are repaired within 24 hours. Free of charge.

Most domestic appliances are made and serviced by private companies, but British Telecom is a nationalised industry, owned by us all, and accountable to Parliament.

The Government says that nationalised organisations are less efficient than the private sector. This theory has already been proved wrong, but the Government has caught the privatisation bug, and ignores the facts.

Parliament is discussing the Government's sell-off plans now. Will they take public service seriously?

A majority of the British public, the staff and management of British Telecom, and all the major opposition parties, say:



British Telecom Unions Committee, 1-15 Bridgewater Square, London EC2Y 6BS

## Financial Times Conferences

## WORLD TELECOMMUNICATIONS

London—November 29-30, 1983

Mr Carlo de Benedetti, Chairman and Chief Executive Officer of Olivetti, will be joining the distinguished panel of speakers for this two-day conference to be held at the Royal Lancaster Hotel.

## WORLD BANKING IN 1984

London—December 6, 7-8, 1983

We are pleased to announce that Dr Manfred Meier-Preschany, Managing Director, Dresdner Bank AG, and The Rt Hon Denis Healey, CH, MBE, MP, former Chancellor of the Exchequer, will be joining the authoritative panel of speakers for this year's annual conference to be held at the InterContinental Hotel.

The following is a list of conferences currently being arranged by the Financial Times for 1984:

AEROSPACE IN ASIA AND THE PACIFIC BASIN  
Singapore—January 16 and 17, 1984

THE CITY OF LONDON AND EUROPE—  
A TEN-YEAR APPRAISAL  
London—February 27 and 28, 1984

CABLE TELEVISION AND SATELLITE  
BROADCASTING 1984  
London—February 28 and 29, 1984

THE EUROMARKETS IN 1984  
London—March 6 and 7, 1984

TOOLS FOR COMPETITION:  
TOMORROW'S FACTORY TODAY  
London—March 27 and 28, 1984

MULTINATIONALS AND EUROPEAN  
INTEGRATION  
London—April 5 and 6, 1984

THE FT WORLD GOLD CONFERENCE  
Hong Kong—May 3 and 4, 1984

All enquiries should be addressed to:

The Financial Times Limited

Conference Organisation

Minster House, Arthur Street

London EC4R 9AX

Tel: 01-621 1355 (24-hour answering service)

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## TECHNOLOGY

GERMANS SPREAD AEROSPACE KNOWHOW TO OTHER FIELDS

## Tested to the breaking point

BY DAVID FISHLOCK, SCIENCE EDITOR

FOR THE past 18 months, a West German research laboratory has been fatiguing-testing a complete German Air Force version of the Tornado, including the performance of its swing wing, in a simulation that will be equivalent to the 16,000 hours of flight expected of this warplane.

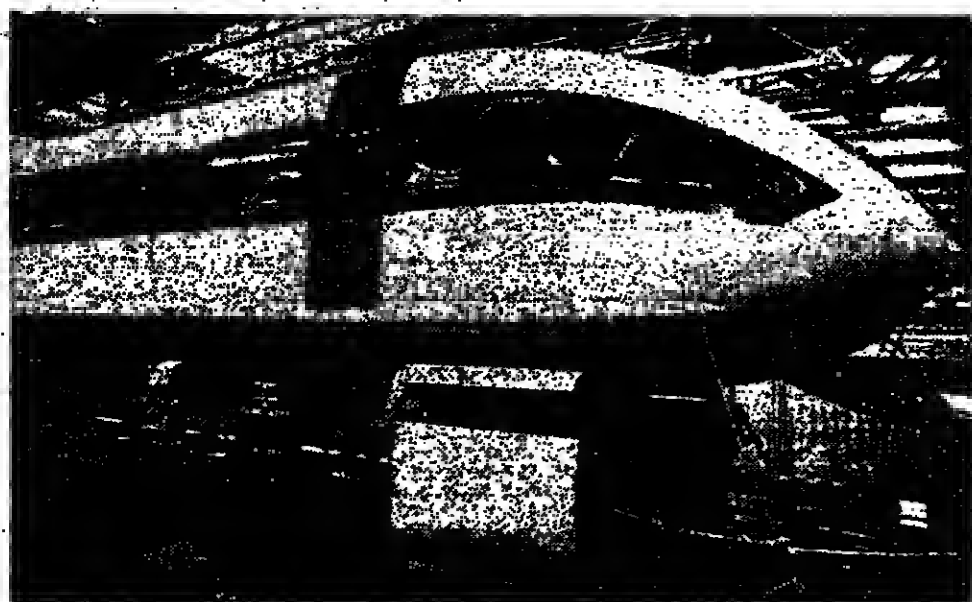
Prof Theodor Gaymann, one of the company's three directors and a former Dornier engineer who helped to found it, is proud of the way IABG transfers high-technology experience from aerospace into other industries. "We find we can sell knowledge we have gained in the aerospace field for other purposes," he says of "cross-breeding" within IABG between the different kinds of testing it does.

Prof Gaymann's company is known by the initials IABG (Industrie-Anlagen-Betriebsgesellschaft). This is Germany's counterpart to the Royal Aircraft Establishment, Farnborough, in Britain, albeit smaller. This is the organisation which finds the breaking point for new aircraft, weapon systems and new trains. Its new railway test track for example has cost about DM 48m (about £12m), funded by the Ministry of Research and Technology in Bonn.

## Levitron

IABG is based at Ottobrun, south-east of Munich, close to the Ottobrun Development Centre of MBB. It is owned 74 per cent by the Federal Government and 26 per cent by such groups as AEG, Dornier, Messerschmitt-Bölkow-Blohm (MBB) and Siemens. MBB is its biggest single client.

At Kempten, near the Dutch border in West Germany, IABG is laying an elevated track 5 metres high and over 30 kilometres in length, for a train that will fly (see this page, October 31). Its first flights will shortly be made on a nearly-completed section. It will travel on a magnetic suspension that keeps it levitated.



A test programme of up to 15 hours daily is scheduled for this maglev vehicle

a constant 10 mm from its track. As is German practice, a new company called Transrapid Maglev Train Consortium, owned jointly by Linde, the German railways, and IABG, has been set up to run the facility.

The Transrapid test facility will try out the flying train under conditions close to those the German railways expect to operate in service, on a full-size vehicle. Its aluminium test vehicle has been built by a joint venture between the aerospace group Messerschmitt-Bölkow-Blohm (MBB) and the railway engineering firm Krauss Maffel. MBB has designed the suspension, guidance, vehicle control, and data acquisition system, while Krauss Maffel built the flying train. The track is designed to allow it to attain speeds as high as 400 km per mile over a one-kilometre straight section of track.

Despite the recession, Prof Gaymann's portfolio of non-aerospace contracts has been growing steadily. Currently it includes the new test facility for flying trains and other unique facilities for testing road suspension funded by BMW—the simulation of a complete test track inside the laboratory. Its successes should encourage the Ministry of Defence in Britain in its efforts to "privatise" more of the activities of research centres such as Farnborough.

According to Prof Gaymann, IABG is unique in Germany in the role it fulfils between private industry and government. It was set up in 1961 by the Ministry of Defence and a budding aircraft industry to provide the expensive test facilities needed for qualification of new designs. Despite the heavy shareholding, and the fact that the assets (valued at DM 308m (about £75m) in 1982) are owned by the government, it operates as a trading company, earning income from testing designs under contract. It has no products other than the new tests it often must pioneer to keep abreast of advancing technology. Hence it is not in competition with private industry, Prof Gaymann says. Last year it earned DM 185m (about £30m), of which two-thirds came from the Ministry of Defence, 11 per cent from the Ministry of Research and Technology, and 23 per cent from other ministries. More than half of its staff of 1,550 are qualified scientists or engineers. Although its big facilities often have a low rate of use, it

consistently manages to turn in a profit. Not a big one, Prof Gaymann stresses, for the directors are not eager to return money to the government.

But, as he sees it, the profit is "the basic motor for our aim to work like industry." It is the yardstick by which IABG is judged to be efficient. Each IABG project manager is responsible for seeing that his facilities are operated profitably — "a principle we've operated for about 15 years."

The bedrock of Ministry of Defence contracts includes fatigue testing of both the two German-built warplanes, Tornado and Alpha-Jet. On these it runs tests equivalent to about four times the expected life span. It advises the German Air Force on where and when to expect cracks to appear. "We can show that the inspection effort is about halved by this kind of monitoring," Prof Gaymann claims.

## Carbon fibre

Looking to the next generation of warplanes, it has a major effort investigating what it will mean to the operator to introduce carbon-fibre composite materials. At MBB, for example, the engineers foresee that more than one-third of the proposed Tactical Combat Aircraft might consist of carbon-fibre composites, saving more than a tonne in weight compared with today's fighters.

Carbon-fibre composites show very good fatigue properties. But overloading can cause cracking and rapid break-up. Excessive temperatures and humidity cause a deterioration analogous to corrosion in metal. In the civil sector, for over a year IABG's structures laboratory has been fatiguing testing the 17-ft-long fuselage centre section and wings of Airbus A-310 for Deutsche Airbus. A 20-year operational life will be simulated in two-three years, through loads applied by 64 servo-hydraulic cylinders. The instrumentation then aims to spot cracks — usually concealed close to bolt or rivet holes — when they are no longer than 0.1 mm. Half the income of the structures laboratory comes from private industry.

Another major client is the European Space Agency, for which IABG is one of the three accredited test centres. It has just completed Western Europe's biggest facility for space simulation tests. The chamber itself 6 metres across, has cost DM15m (nearly £4m). It will reproduce the high vacuum, low temperatures and solar radiation of geostationary orbit, 22,000 miles out from earth.

The German TV satellite will be tested in this space chamber. In particular, they want to investigate the way geostationary satellites can build up an electric charge on its sunny side, says Dr Otto Fell, in charge of space testing. To stimulate solar rays, the chamber has a "sun" consisting of seven 30 kW xenon arc lamps focused into a beam 3.5 metres across. A two-axis motion simulator will allow the

DU PONT'S NEW CERAMIC FIBRE

## How Toyota makes lighter engines

AN EXPERIMENTAL ceramic fibre called Fiber FP developed by Du Pont in the U.S. is being used by Toyota in research on reinforced aluminium connecting rods for potential application in production cars.

The material is a polycrystalline aluminium oxide fibre and it is being used in a metal casting and design technology developed by Toyota.

According to Dr Blake Richman, who is supervising the Du Pont program, the aluminium oxide has a high degree of stiffness, high compressive strength in composites, moderate tensile strength and high temperature stability, "all of which make it well suited for reinforcing non-ferrous metals."

Apparently aluminium and magnesium reinforced with 35 to 50 per cent by volume of continuous filament Fiber FP have from three to four times the stiffness and up to four

times the fatigue strength. Du Pont claims that replacement of steel connecting rods by the 35 per cent material could lead to increased fuel efficiency, faster engine response and lower engine vibration. Further weight savings should be possible in other key reciprocating components as well.

Fiber FP also has potential for reinforcing lead, ceramics, and epoxy and polyimide resins, says Du Pont, and there are a number of joint development programmes to establish their value in such areas as helicopter transmission housings, jet engine casings and lead acid battery grids.

Resin and ceramic composites containing Fiber FP may have potential in radar-transparent and high temperature applications. In addition, some 40 material evaluation programmes are active in U.S. Government agencies, universities and in both U.S. and other companies.

ELECTRICAL HARNESS WEAVING

## Fruit of the loom

HYBRID CABLES of the kind used in electrical harnesses can now be woven together automatically on a programmable loom and tested "in situ". These are both spin-offs of Marconi Space and Defence Systems (MSDS) work on underwater weapons and tanks.

"Marconeweave," the name of the product, is driven by computer software which can specify the precise construction of any length or type of cable form. An automatic cable tester (ACT) puts the finished cable through its paces as it is being woven into flat, multilayer or tubular dimensions.

MSDS reckons that Marconeweave is not only more efficient than the present, manual peg-board process, but that its development to military specifications means greater accuracy and homogeneity along the cable length. The company also expects to be able to supply software from stock "for the foreseeable future."

## Computing Japanese memory for Eclipse

DATA GENERAL has squeezed its Eclipse minicomputer into a more compact package thanks to what it claims is the first use of the latest high-density memory chips from Japan.

The MV8000C is a rack-mounted 32-bit mini for integration into larger systems. It was made possible by DG's Japanese subsidiary being able to get first look at the 256K dynamic RAM memory chips, faster and with four times the storage capacity of present dynamic RAMs.

The MV8000C can store a total of either 1 or 4 megabytes of internal memory from upwards of \$55,000 for one and a volume product for system builders rather than the end-user.

DG has also unveiled a cheap array processor for the Eclipse MV family, Arrayplus 2000, an add-on which allows multiple pieces of information to be processed at the same time from \$18,000.

Home computers

Texas

## gives guarantees

AFTER RECENT announcements about its withdrawal from the home computer market, Texas Instruments has made it clear that all TI 99/4A owners will continue to get cover under guarantee and that service facilities will continue to be available when guarantees expire "for an indefinite period."

The company also expects to be able to supply software from stock "for the foreseeable future."

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able future." Peripherals supplies are limited, however, although the company points out there are numerous third party sources of compatible units.

TI also is at pains to make it clear that its withdrawal from the home market in no way affects its participation in professional computers sold by the company's Data Systems Group through dealers and professional computer stores.

The company, it is understood, also intends to stay in the calculator and the portable / compact computer markets.

## Maintenance Corrosion defence

THE PEABODY OIL Division of Salo Tilley has launched a chemical rust solvent called Chemprime which is easily applied in the field.

The company describes Chemprime as a highly effective alternative to the phosphating process with application not restricted to the factory environment.

A green, non-flammable liquid with coverage of about 1,000 sq ft per gallon, Chemprime reacts with iron oxide to form an inert iron-silicate-strontium film to protect and condition the surface. Severe corrosion deposits can be removed from internal and external surfaces by immersion, the process being speeded up by heating the fluid.

The treatment conforms to a number of MIL specs and more information is available on 0832 56161.

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# "98% on-time delivery — just one reason why the Board is delighted with our Northern Ireland plant"

Noel Irwin, Vice President, Hughes Tool Company

## Fact 1

When Howard Hughes's father launched his legendary drill bit in 1909, he founded a company that is still the mainstay of the oil drilling industry. Thirty years ago Hughes Tool made another discovery, Northern Ireland, and their plant in Belfast has been servicing the oil and gas industries of Europe and the Middle East ever since with the efficiency, productivity and profitability that Northern Ireland's industrial heritage led Hughes to expect.

## Fact 2

Luckily, the good news about Northern Ireland's high productivity travels almost as fast among some industrialists as bad news does among journalists, which perhaps explains why 100 plants have set up almost unnoticed in Northern Ireland in the last 10 years. There are 26 successful U.S. companies operating here, from giants like DuPont and General Motors to smaller market leaders like American Monitor. European companies like Hoechst, Plessey and S.T.C. also judged Northern Ireland on its merits and are delighted with the results.

## Fact 3

A technically-gifted workforce and a unique relationship between unions and management, resulting in consistently good industrial relations and productivity.

## Fact 4

We have an efficient infrastructure; our ports, airports, roads, telephone and telex are all geared to modern business needs. Their consistent reliability makes first class delivery performance possible for every company operating in Northern Ireland.

## Fact 5

For a company looking to both short-term and long-term profits, our financial package is irresistible. Your fixed capital costs can be reduced by up to 80% and many companies pay no corporation tax.

## Fact 6

Once they get here, foreign executives and their families enjoy life and leisure — including many sports such as trout fishing — so much that often they are reluctant to return home, even to accept promotion.

## Fact 7

Our researchers tell us you may not believe this advertisement! So here's a challenge from Noel Irwin of Hughes Tool. "Visit us in Belfast and we'll show you the facts." To arrange a visit to Hughes and other successful plants in Northern Ireland, call or write to John Hughes at the address below.

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## Northern Ireland Judge us on the facts

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## UK REGIONAL REPORT: MOTHERWELL - 1

By MARK MEREDITH

## Strong drive to win new industries

MOTHERWELL IS a steel town looking for a new direction. Finding a new path for a local economy geared for generations to heavy industry has become the largest industrial regeneration project of its kind for the Scottish Development Agency (SDA) which, along with Strathclyde Region and Motherwell District Council formed the £60m Motherwell Project a year ago.

Steelmaking and the vast Ravenscraig works, dominate the landscape, the atmosphere and the economy. Today the future of the steelworks and its 4,300 workers is far from certain as the British Steel Corporation struggles to absorb heavy losses and the effects of steelmaking over-capacity in Europe.

Yet, although a surprising scattering of other industries does operate in Motherwell, including electronics and food distribution, it is steel at Ravenscraig, along with the Clydesdale tube works, the Dalzell plate mill and the Crumneuk alloys works, accounting altogether for 6,000 jobs which has created the main source of expertise among the local workforce.

The approach of both the public and private sector

During the past 15 months there have been encouraging results in the £60m Motherwell project to attract more diverse industries to the area

Interests involved in the Motherwell project have been to create opportunities for new industry while making the best of what is already there—much of it desperately needing a new lease of life.

Driving through the scattered villages around Motherwell or looking down on a 40-acre site between the Ravenscraig and Dalzell works where an underground fire has been burning at the site of the dismantled Lanarkshire steel works since 1942, it is easy to feel that radical surgery is the only answer.

Yet, after 15 months the project team, working from a converted and once semi-derelict bank in the town centre have produced encouraging results:

forty-seven new firms; more than 400 jobs; 100 enquiries a month from companies moving in; and 80 per cent of the 200,000 square feet of new and refurbished factory space let according to Richard Colwell, chairman of the project steering group.

So far the SDA, which is the semi-official industrial promotion body for Scotland, has put up £5m of the £37m it has committed to the five year project, with Strathclyde Region spending £1.9m of its £14m for infrastructural assistance. Motherwell District has spent £2.5m of the £6m it has earmarked for environmental, housing and other local improvements to services.

Part of the balancing act in

Motherwell has been to minimise the obvious state sector involvement in industrial promotion and maximise private sector activities.

To this end the Motherwell Enterprise Trust, one of a number of schemes throughout Scotland formed under the auspices of Scottish Business in the Community is able to bring together resources available in established local companies to help new companies.

A one-stop shopping approach of this sort is essential in an area such as Motherwell, traditionally a "low response" area for the SDA with few applications even for free advice on small business and government assistance available. Indeed, business enthusiasm might be

said to be sorely lacking with no Chamber of Commerce and only one Rotary club.

The small coordination team led by Mr Edward McHugh is hoping, however, that some examples set by local businesses in looking for new ways to expand could inspire others.

The Motherwell promoters make much of the area's good communications, located as it is on two motorways going north-south and east-west. This access has led to new industrial development coming into the peripheral area outside the local townships of Motherwell, Bellshill and Wishaw.

The Motherwell Food Park, the first of its kind in Britain, is a case in point, located at the side of the M8 motorway be-

tween Edinburgh and Glasgow.

Making much of good access, too, has meant welcoming not just new manufacturing which is usually associated with industrial regeneration, but accepting the growing role of service sector activity such as distribution.

A new look has also been taken, as part of the policy of encouraging existing industry, at the network of 180 small engineering firms scattered along the Motherwell-Wishaw corridor, as the planners are already calling it. These companies have traditionally depended on sub-contract work for larger firms such as British Steel, Anderson Strathclyde and the Torex plants nearby, all of which have tended to pull work back to base when times are tough.

Consultants were brought in to look at the engineering sector

around Motherwell and recommended more coordination between the firms and the formation of consortiums to look for new work. A joint marketing approach has also been made to larger firms in the area to see if any work normally imported by these firms could be done locally. A closer study of procurement and material sourcing could well turn up new opportunities.

After diversification of industry and helping existing industries find new markets, a third arm of the project's approach is to establish Motherwell as a place for foreign companies to set up plants.

This is partly an in-house matter for the SDA which runs an inward investment office located in Scotland along with the grant-giving Scottish Economic Planning Department.

Given the magnificent line of

greenfield sites in Scotland, convincing a foreign firm to set up in this sector of the central belt of Scotland will be an uphill struggle. But the right marketing approach will at least put the area on the itinerary of the visiting inward investor.

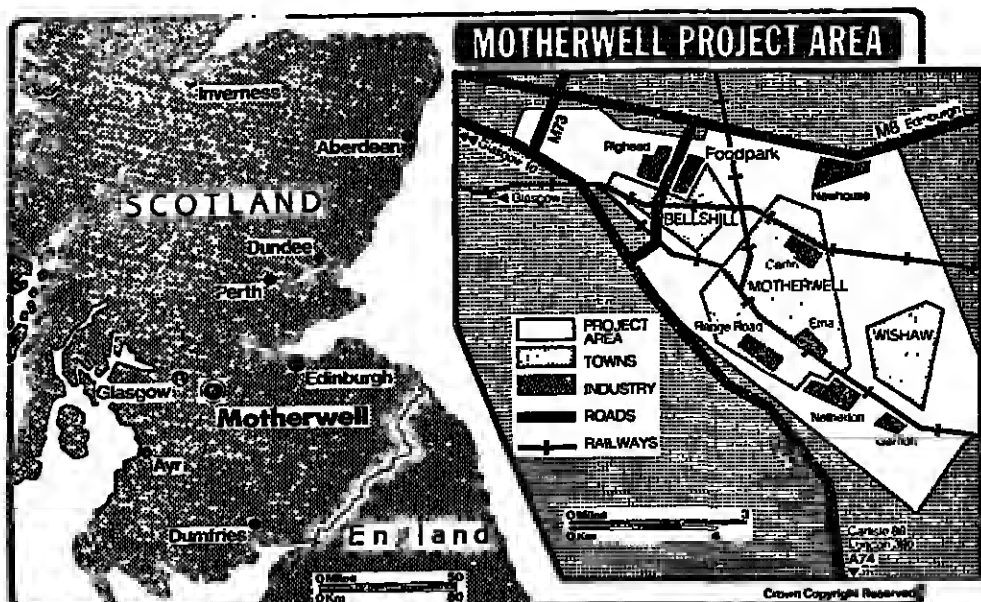
Things will look up for Motherwell if Motherwell starts to look better. But urban renewal and environmental improvements are not straight forward.

According to Fred Millan of the SDA, as little as 15 per cent of the total land area inside the project was suitable for landscaping and tree-planting to give it a lift.

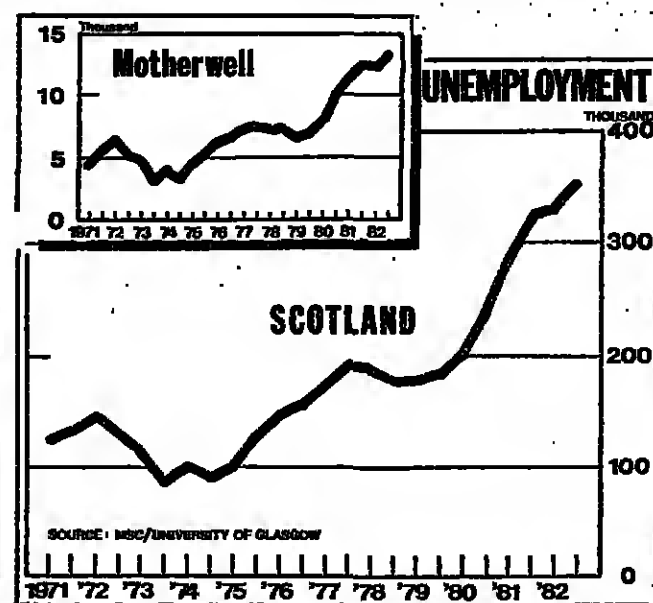
Some £4m has now, however, been set aside for environmental improvements, in the hope that this can give Motherwell the appeal of many of its rivals in the bid to secure new investment.



Steelmaking and the vast Ravenscraig works dominate the Motherwell landscape



Motherwell's promoters emphasise the area's good communications and access to the motorway system



## More high technology plants

HIGH TECHNOLOGY has a small but lively presence among the steelworks and heavy industry of Motherwell.

Honeywell's main plants in the UK overlook the M8 motorway north of the town producing minicomputers and larger mainframe computers along with a range of control equipment.

The two units of the American Electronics Corporation employ 1,500 including a design and development unit for new products—the kind of presence that pleases planners who are happiest when large electronics firms do not turn out to be strictly assembly plants.

Honeywell has been associated with the Lanarkshire area since

the company set up its first overseas firm at Blantyre to the West.

Ferranti's Scottish division which is based in Edinburgh moved its production of automatic test equipment for military avionics to Motherwell about three years ago to tap new reserves of engineering graduates and skilled workers.

The Ferranti plant employs about 220. Pantatron Systems Limited, subsidiary of RTD, Rotterdam, set up in Motherwell centre about six years ago to produce ultrasonic non-destructive testing equipment.

Dr John Speake, managing director of Pantatron, said that at the beginning the location

worked against the company due to its distance from main markets south of the border.

But North Sea contacts and increasing North Sea business with work in Aberdeen has compensated for this.

The company, with 17 employees and a turnover of about £500,000, is expected to grow to 100 workers as a new service-leasing 'out test' equipment and operators is developed from the Motherwell base in association with the Dutch parent.

While Anderson Strathclyde's operations remain in the heavy industrial sector of mining, its Longwall mining equipment has considerable technology input through control systems.

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## MOTHERWELL - 2

### SUCCESS FOR UK'S FIRST FOODPARK VENTURE

For something completely different, the Motherwell area has produced a successful foodpark, the first of its kind in Britain.

Food handling may not seem the obvious choice of industry for an area with a rich history of coal, iron and steel. But three companies chose the area near the M8 motorway between Glasgow and Edinburgh for their packaging storage or distribution centres.

The Scottish Development Agency (SDA) then decided to promote a foodpark to bring in more food companies

and encourage the kind of interaction normally associated with the electronics field.

Today, besides the three original occupants of factories on the northern fringes of Bellshill—AGA Frigoscandia, Ross Foods and Birds Eye Walls—four other companies have moved in.

One of them, Dabiel, is a good example of the kind of interaction which the SDA wanted to promote. The company which supplies the meat trade prepares meat for Ross Foods and uses Frigoscandia's cold storage. It also buys in

sausage skins from another resident, Devro.

The park is today run by Mr Eric Dunkley who acts as a talent scout for inward investment, a co-ordinator of aid and of the kind of link-ups which are making the park work.

D and M Clark Analytical Services which carries out microbiological studies on food samples is another new arrival. Geest, the banana people, are spending £2m setting up a packaging and distribution centre for fresh vegetables.

Expressions of intent to

move in or strong inquiries, have come in from a U.S. meat company, cheese and confectionery groups, a bacon processor and pâté manufacturer and even a brewer.

The financial packages of assistance to new companies, the managed foodpark and the good road network will help overcome some of the environmental shortcomings.

Eric Dunkley concedes that overcoming the myth of past heavy industries has been a problem but the presence of big names in the foodworld is enough to win over some of the doubters.

### Forceful campaign against plan to close huge steel mill

## Ravenscraig is living on borrowed time

RAVENSCRAIG, at the heart of industry in Motherwell, is living on borrowed time. A year ago this huge steel mill had been singled out for closure. It might have been one of the most modern steel plants in Europe but it was the one mill too many for a British Steel Corporation losing millions.

The defence campaign that followed and led to a reprieve for "the Craig" as its 4,300 steelworkers call it, produced a spectacular display of unanimity across the Scottish political and industrial scene. The closure proposal of Mr Ian MacGregor, then head of BSC, was shown to be politically and economically unacceptable for Scotland.

Not only was the Labour Party, which controls a large majority of the Scottish seats at Westminster, against any closure, along with the trade unions, Mr George Younger, the Secretary of State for

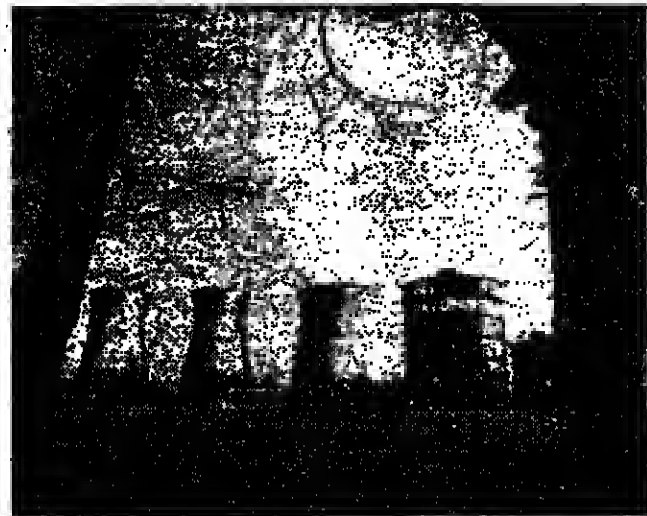
Scotland, was apparently ready to stake his job on defending the mill and he was backed by his fellow Conservatives in Scotland. Much of Scottish industry also voiced its concern.

Apart from the BSC losses to be stemmed, the argument against Ravenscraig was easy to assemble.

Here was a mill set up for political reasons by the Macmillan government in 1954 to fuel regional industries which had since died or dwindled to consume today a mere 5 per cent of the steel produced north of the border.

Shipbuilding and heavy engineering were in retreat, the Linwood car factory closed and production at Leyland Vehicles at Bathgate cut back—no mention just the larger users.

Then too the new industries growing up in Scotland—such as electronics, biotechnology and health care—were hardly big



Ravenscraig: a reprieve for the mill that not only employs 4,300 steelworkers but is supplied and serviced by 1,300 companies, most of them in the Motherwell area

steel users, although there was some good business to be gained from the heavy metals used in the offshore oil industry.

At the core of the Scottish argument for an integrated steel mill was the future of manufacturing in Scotland. Despite the gains of the service sector and the changing complexion of industry, there was still the fundamental belief inside the Scottish Office that steel manufacturing was vital to economic recovery.

A past poor productivity record had weighed heavily against Ravenscraig as Mr MacGregor came to grips with the Corporation's troubles—not to mention the distance from markets and added transport costs.

But Ravenscraig had 80 per cent more of its capacity made up of the continuous casting system of steel production—the most efficient method of production—and a capacity unmatched elsewhere in Britain. Scotland had taken some heavy industrial knocks but the closure of Ravenscraig would have been devastating—not just for its employees but for the industry which had built up around it, fed off it and fed the mill in turn in terms of business.

According to one estimate, Ravenscraig spent £120m a year on labour and on the 1,300 companies providing goods and services locally, most of them in the Motherwell area.

The Scottish TUC, backed by Strathclyde Regional Council, drew up a report "A future for

steel—a future for Scotland" which forecast that the closure of Ravenscraig would lead to not just the 4,300 jobs lost at the plant but a total of 10,300 to 13,600 taking in the affiliated jobs that would go as well.

The all-clear in this battle came with the statement last December from Mr Patrick Jenkin, the Industry Secretary, that British Steel would be instructed to proceed for the next three years on the basis that all five major integrated steel mills would be kept going.

The industrial bottom line to this argument was that it would be wrong to turn off one of Europe's most modern mills. The Government might save £100m by shutting the plant but it was not a straightforward case of cost saving.

Undeclared, Mr MacGregor sought new options and used his considerable array of contacts in the U.S. to propose a marriage between crude steel making at Ravenscraig and finishing capacity at U.S. Steel's Fairless works in Pennsylvania.

The "swap" proposal, finally decided by the end of November, would mean ending steel finishing at the Gartcosh section of Ravenscraig as well as the outdated primary steel making operation at U.S. Steel. About 2,000 jobs would be lost from both plants.

Again the defence forces regrouped around the big Motherwell mill but because of the uncertainty of the proposal and even some feeling that it was not such a bad idea, there has been less of a public outcry.



High technology has a small but lively presence among the region's heavy industry. Above: a bird's eye view of Honeywell's main UK computer plant in Lenarkshire

### How the private sector is building confidence in Motherwell

## A helping hand for new companies

ANDREW CHRISTIE does not like quoting job figures. "I am not here to create jobs," says the director of the Motherwell Enterprise Trust. "You can create jobs but all we can do is assist you in establishing jobs."

The emphasis in Mr Christie's office on the top floor of the Motherwell project office is on self-help. The Enterprise Trust is the organised arm of private enterprise through the business in the community movement helping new companies to get going.

Industrial promotion in Scotland today is geared very much in encouraging self-help among industry and overcoming a tendency to wait for officially backed initiatives.

The Enterprise Trust counsels on local business to

contribute funds and even more to offer managerial talent and time to new businesses in its area.

In Motherwell larger companies like Motherwell Bridge, a heavy construction concern, along with Anderson Strathclyde, Honeywell Computers and Levi Strauss are part of the 12 contributors to the Trust. Local chartered accountants and solicitors are involved too.

#### Job potential

The scheme has had over 100 contacts so far but Mr Christie is loath to translate these into jobs or even potential jobs.

Mr Christie, 53 and a former regional engineering manager with Scottish Brewers—part of Scottish and Newcastle Brewers—was seconded by his company

to run the Trust, which is now one of eight in Scotland. He and Ms Kay Abraham, his assistant cum secretary co-ordinate, interview and encourage local business.

Honeywell, which employs 1,500 in its control systems and microcomputer plants at the northern fringes of the district, recently contributed managerial time to help two local blacksmiths work out their possible cash flow.

A redundant manager from Motherwell Bridge was helped set up a specialised garage business for sports and racing car enthusiasts.

Another key undertaking of Christie is the formation of a local businessmen's club to meet regularly to listen to an invited speaker, ask some questions and then, fingers crossed, to start using the get-

together to carry out some business.

Getting managers together is not all that easy. In a steel town like Motherwell many of them live outside the area and the problem is finding the right time to get them all together.

The Trust, in Christie's view, can help counter some reluctance on the part of businessmen to approach the public sector and its range of assistance—much of it available free. The one-stop approach in Motherwell has put the Enterprise Trust and the Scottish Development Agency, the semi-official industrial promotion body for Scotland, under the same roof with the hope of constructive cross-fertilisation between the public and private sectors.

### Heritage tours are popular

"FORGET Malaga and try marvellous Motherwell, a mecca for the modern tourist." A travel agent's puff along these lines would extract an extended guffaw from a steelman at the local Ravenscraig mill.

Yet Mr Edward McHugh, director of the SDA's Motherwell project team, takes the idea seriously—seriously enough to commission a consultants' report on developing tourism in the area.

"Our initial studies show that 60 per cent of all holiday-makers visiting Scotland by car pass through the area yet very few consider stopping," he says.

While a grimy image of heavy industry and blight

may go some way to explain the tendency for tourists to keep their feet on the accelerator, the project team think that with a bit of the right publicity and co-ordination things could change.

The consultants have recommended improving the use of neighbouring Strathclyde Park, not just for the passing tourist but for the Glasgow day tripper.

Holiday and leisure spending is estimated at £3.8m a year and to be supporting 500 jobs already.

The local tourist board already specialises in heritage tours which include a visit to the Ravenscraig steel mill. Enquiries are flooding in, it says.

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are sited in the Foodpark.

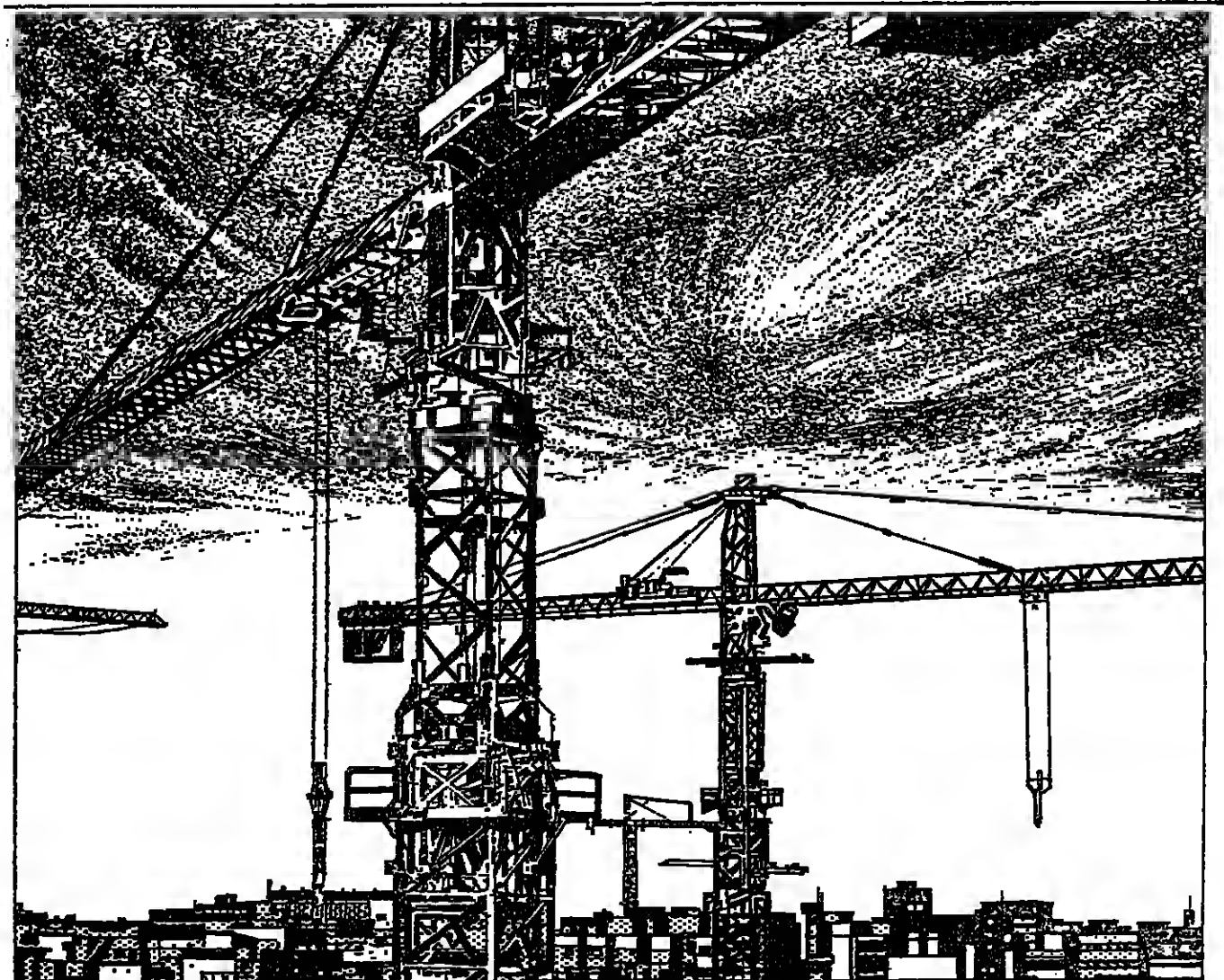
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## THE MANAGEMENT PAGE

EDITED BY CHRISTOPHER LORENZ

MICHEL PECQUEUR, a big friendly unassuming man who was in charge of the French Atomic Energy Agency for five years, has been unusually busy during the last few months. Since June he has been running Elf Aquitaine, the large French state-controlled oil group and so far the country's most profitable enterprise.

His appointment to what is perhaps the most prestigious job in French industry came as a complete surprise, even to him. He was chosen at the last minute to become the chairman of Elf, replacing Albin Chalandon, the outspoken and controversial former Gaullist minister dismissed by the Socialist government after a blazing row over the oil company's role in the French chemical industry.

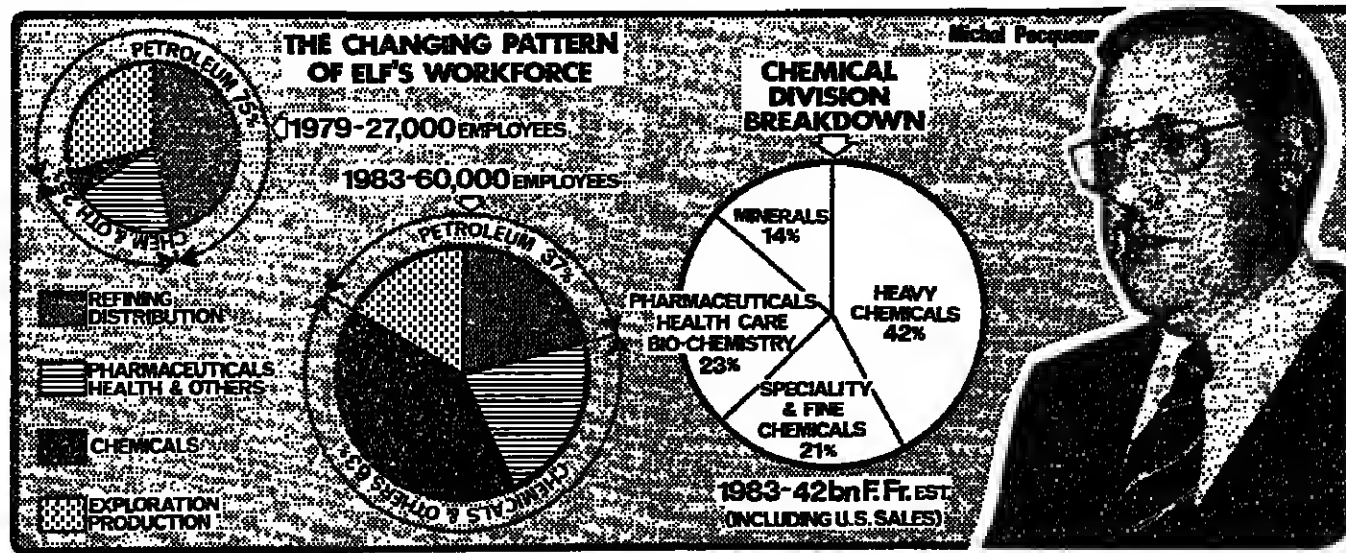
In contrast to Chalandon's show business management approach, Pecqueur has been working quietly to calm the atmosphere at Elf after the departure of his predecessor. He has also been spending his time fine-tuning the oil group's strategy at a particularly critical moment in the life of the large state-controlled concern employing 60,000 people with sales of FFf 118bn (£9.5bn) and net earnings of FFf 3.5bn last year.

"Pecqueur has clearly a different style from Chalandon. He is quieter, more discreet," an Elf insider remarks. "But what has struck everybody here is the continuity with his predecessor's strategy," the same insider adds. Pecqueur has, indeed, so far followed along the broad strategic lines set by his controversial predecessor and has entrusted the execution of this strategy to the same executives close to Chalandon.

Backed by Gilbert Rutman, Elf's deputy chairman and a close Chalandon aide who could well have become chairman himself under different circumstances, Pecqueur has continued the process of moving Elf into five principal business areas.

In the group's traditional oil exploration and production activities, the aim is basically to replace the declining reserves of Elf's giant Lacq gas field in France with new resources. In the refining sector, the problem is one of finding adequate solutions to cut back the heavy losses plaguing the French refining industry in general. Pecqueur has already successfully campaigned with other French refiners to persuade the French government to revise favourably its petroleum pricing formula which has been a major financial drag on the French refining industry.

In the U.S., where Chalandon launched Elf in an aggressive,



## Elf's new man faces up to chemical challenge

Paul Betts reports on how style, rather than strategy, has changed at the top of France's biggest state company

but so far disappointing, expansion programme with the U.S. \$2.5bn acquisition of Texasgulf, Pecqueur wants to make the substantial new American investments finally pay dividends. This year, however, Texasgulf will again turn in a disappointing performance. "It will only earn a few million dollars," says Rutman.

### Daunting

The other two sectors are the health care and pharmaceutical business and Elf's newly acquired French chemical operations, which Elf reluctantly took over under government pressure and in the end cost Chalandon his job. In both cases, Pecqueur has picked the same man as Chalandon to run the businesses. René Sautier, who was largely responsible for transforming Sanofi, Elf's pharmaceutical subsidiary into a profitable and growing venture, faces the daunting task of making the group's new chemical operations profitable by the end of 1986 while continuing to run the separate pharmaceutical division.

In an effort to streamline and rationalise the structure of the

group, Pecqueur has been reorganising Elf into five operating divisions corresponding to the group's main areas of activity: exploration and production; refining and marketing; chemicals; pharmaceuticals and health care; and the U.S. This reorganisation is due to be completed by January. Although, on the surface, it will at least further decentralise the group's operations, the overall strategy is expected to remain firmly in the reins of Pecqueur and Rutman as chairman and deputy chairman respectively.

But of the five sectors, the big challenge for Elf is clearly chemicals. "Chemicals can no longer be considered simply as a diversification for the group. They are a key component of our business," Pecqueur remarks.

Elf, in line with the Socialist government's plan to make the profitable state oil group the centrepiece of the troubled French heavy and basic chemical industry, has now taken over an extremely dispersed network of chemical plants in France employing 11,600 people with sales of FFf 16bn a year. These operations, including the heavy

chemical assets of the nationalised Pechiney aluminium group and those Elf previously jointly owned with Total, the other large French oil company, are expected to lose FFf 1.2bn this year. The idea is now gradually to reduce the losses to make these operations break even by the end of 1986. "Under certain circumstances, we think it is possible," says Pecqueur and Sautier virtually in harmony.

Elf grouped all its newly acquired chemical assets into a new subsidiary called Atochem last month. But as a measure of the evolution taking place at Elf, if one were to add Elf's Sanofi pharmaceutical subsidiary and its other speciality chemicals subsidiaries to the newly acquired assets, chemicals as a whole would account for 63 per cent of the group's French workforce of 60,000 people. The entire chemical and pharmaceutical operations, including those in the U.S., are expected to generate sales of FFf 42bn this year.

Sautier, Elf's chemicals Mr. Fix-it, recently unveiled under Pecqueur's paternal eye, the broad chemical strategy of the oil group. Elf has no intention of increasing its production

capacities. It wants instead to shift increasingly the balance of its output towards higher value-added products in the speciality chemicals area, reducing the proportion of heavy or basic chemicals. At present, basic chemicals represent 53 per cent of the sales of Atochem, plastics 33 per cent, with the balance being made up of fine chemicals and specialities.

### Joint venture

Sautier believes Elf has already resolved its ethylene problem by rationalising capacity through the closure of three steamcracking units at Feyzin, Lavera and Gonfreville in France. He also believes Elf is in a relatively strong position as regards low density polyethylene, polystyrene and polyvinyl chloride (PVC). To reinforce Elf's position in sectors in which its chemicals operations are relatively weak, Sautier says the group wants to negotiate collaboration deals and joint ventures with other international chemical groups. Among sectors which Elf would like to reinforce are polypropylene production and high-density polyethylene.

Part of the rationalisation of the chemical operations will entail some 2,000 layoffs during the next three years. "But there need be no drama about this," says Pecqueur. He believes these job cuts can be done either through early retirements or through other existing mechanisms to avoid too large a number of straight redundancies.

Both Pecqueur and Sautier, however, acknowledge that the restructuring decisions may be harder on some specific plants. "We are not going to scrap the old plants and start building the sort of petrochemical complexes we dream of," says Pecqueur. But some plants clearly are doomed as production is rationalised. "We believe we can restructure the business on what we have with some closures to make it competitive," Pecqueur adds. The problem for Elf is that it has taken over some 20 plants scattered throughout the country which are part of the particularly inefficient industrial heritage of the former French private chemicals industry.

To finance the restructuring programme, Elf intends to invest between FFf 800m and FFf 900m a year in the chemicals sector of which 60 per cent is to come from internal funds and the remaining 40 per cent to be raised on the capital markets.

But Elf's own internal restructuring efforts will have to be matched by a number of crucial external factors, warns Pecqueur. The general international economic outlook will clearly be an important factor, especially since Elf intends increasingly to internationalise its chemical business. In France, the oil group is seeking the support of the French government in two key pricing areas. Pecqueur argues that Elf cannot hope to be competitive as long as it suffers from domestic price constraints on chemical products and it cannot secure more favourable electricity prices at home.

French chemical product prices, fixed by the government, have on average been about 20 per cent lower than in other European countries. This has prevented Elf from negotiating joint ventures with other chemical companies.

"How do you expect anyone to be interested in doing a deal with us if we offer them a loss making market in exchange for a profitable one?" Sautier remarks. But in recent weeks, the situation has improved with the French Government allowing increases in some French plastic products. Pecqueur expects the

Government to liberalise prices early next year to enable French companies to operate in a more acceptable commercial environment at home. At the same time, the liberalisation of industrial prices could enable Elf to resume negotiations on joint ventures with other chemical concerns.

Pecqueur is also pressing the French Government to help Elf by enabling the oil group to secure better electricity rates for use in its chemical operations. Negotiations between Elf and Electricité de France (EDF), the French electric utility, have already started. Pecqueur says the talks are very delicate but he argues strongly that his chemical group, which accounts for 3 per cent of French industrial electricity output, should be favoured.

Indeed, there is already a precedent. Pechiney, the aluminium group whose basic chemicals business has been taken over by Elf, negotiated a complicated deal this summer with EDF to secure better priced electricity. Part of the deal involves Pechiney taking a stake in a French nuclear power station. As one of the guiding forces behind the French nuclear programme, Pecqueur is in a strong position to negotiate a deal for Elf with EDF. After all, he says, France has established a unique nuclear electricity network which should also be used to support domestic industry.

Pecqueur also appears to be in a generally stronger position to negotiate with the Socialist Government than Chalandon was in his final days at Elf. Whatever his attempts to protect himself as an independent industrial manager, Chalandon remained a highly political figure at Elf and one constantly needing the support of the Government and the legendary dirigisme of French public administration. Pecqueur, by contrast, is low key and projects the image of a technocrat. In the style favoured by Laurent Fabius, the young, industrial minister who dismissed Chalandon.

But apart from the complexity of managing a group like Elf at such a delicate time for the oil group, Pecqueur also faces a daunting personal challenge. Chalandon, to all intents helped to build Elf into a profitable and glamorous enterprise and left just before the company took the big plunge in the heavy chemical business. It will be up to Pecqueur now, in his quiet way, to steer the company into a different era while preserving its image in France as the country's premier industrial group.

## Less noise: more work

PEOPLE are making a lot of noise about noise at the moment.

The EEC has produced a draft directive proposing the harmonisation of occupational noise levels, and a common maximum of 85 decibels, compared with a generally accepted present top level of 90 decibels in most member states, including the UK.

A change to 85 decibels would require reducing the maximum acceptable level of noise intensity by about one-third. In the view of the Confederation of British Industry, which has launched a determined opposition to the proposals, it would cost UK industry "billions of pounds" to make the change.

But noise in the workplace is a real problem. The Health and Safety Commission estimates that at least 14 million people work in an environment noisy enough to damage their ears, and it has launched a Noise Campaign aimed at convincing industry that it does not always cost a fortune to make improvements.

"Managements sometimes accept too quickly that familiar processes are just inhere and that any improvement would cost a lot," says Dr John Cullen, chairman of the commission. "It's your hearing — protect it or lose it" is the slogan for the campaign's leaflets, which will include advertisements, workplace posters, direct mail, films and radio tapes.

Hearing can often be protected by the use of earplugs for the commutator's benefit, however, to dislike wearing them and most ear protectors are used wrongly, irregularly or not at all.

This makes the need to quieten noisy processes even more important and, as part of the campaign, the commission has produced a book (100 Practical Applications of Noise Reduction Methods, HMSO £7.50) designed to show that noise reduction can often be tackled for limited cost.

Case studies show that measures to reduce noise can sometimes provide other benefits like better productivity, lower absenteeism rates and a cleaner, safer working environment.

Alan Pike

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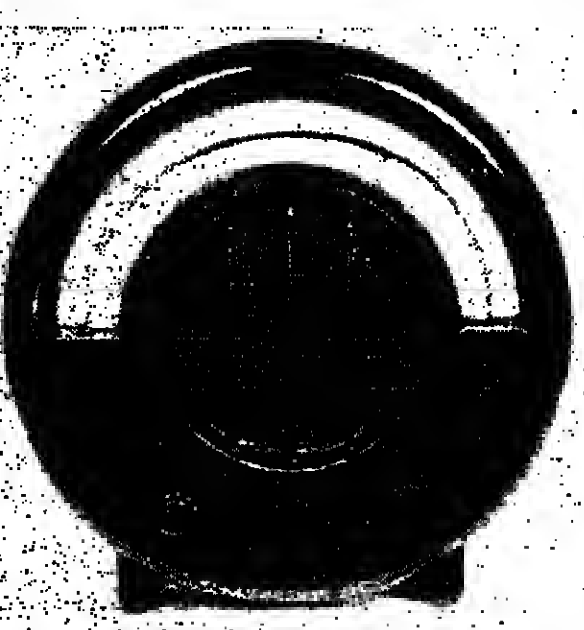
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## THE ARTS



Left: Deer, designed by John Skeaping (1927) and an early Bakelite radio



## Architecture

Colin Amery

## A fresh look at British design

On Wednesday this week a major event takes place at the Victoria and Albert Museum — the first gallery in the museum devoted to the art and design of the 20th century opens to the public.

It has long been the responsibility of the grand old V and A to present through its primary galleries the complicated and fascinating history of the decorative arts. Until this week the artefacts of the 20th century, all of them made in Britain, have been lurking in the stores and basements of the V and A and to the casual visitor it has looked as though design stopped with the Victorians.

The importance of this gallery lies beyond the objects on view. The recognition of the fact that the "furniture" of the 20th century is as important as the objects of the 19th century is a crucial step forward. The first gallery to be opened is called *British Art and Design 1900-1960* with an important subtitle "A collection in the making". This is only the beginning, when the Theatre Museum opens the galleries made available will tell the 20th century story up to the 1980s and beyond.

Gradually the V and A is sorting itself out within the confining corner of its wholly various buildings. Although I welcomed the recent opening of the Henry Cole Wing another visit has made me look again

at the display of the Constable pictures in particular. Here the display design contrives to make the pictures look attractive, particularly in the case of the glass cases. In contrast the new 20th century gallery is a cool lesson in elegant museum design.

The collection is to say the least heterogeneous. It includes furniture, textiles, ceramics, metalwork, sculpture, prints, drawings, posters and photographs. The designer, Christopher Frimston, has chosen to put almost everything inside glass display cases that are as large as the average London shop window. He was briefed by the Museum to take special care not to alter the architecture of the galleries (designed by Sir Aston Webb) and so his black timber structure stands like a framework in a larger room.

In style the setting for the objects is like a Miss Van der Rhee steel structure made in wood. The use of the deep top beams conceals the problem of museum lighting by making it invisible. Is the display of almost everything behind glass (dictated by the stringent demands of conservation) too much like the proverbial shop window? I don't think so — it is sufficiently reticent and controlled to let the objects speak for themselves. It may look a bit overdone but that, I think, avoids making icons of any of the objects.

The budget for the gallery was clearly not a large one but

the generosity of the Baring Foundation and the Associates of the V and A has made it possible to expedite the showing of this part of the 20th century collection with some speed — we shall have to wait two more years to see the equivalent American and Continental objects.

It is such a relief after the old-fashioned didacticism of the Boilerhouse to see a view of the 20th century in Britain that is eclectic and not totally devoted to the view that everything must lead to the brave new world of modernism. It was the all pervasive influence of Nikolaus Pevsner that prevented the fair assessment of alternatives to the modern movement.

It was Pevsner who saw Art Nouveau as a blind alley — now we can see it as an enriching movement and a proper style. The display is chronological, starting with Charles Rennie Mackintosh and ending with the furniture of architects Alison and Peter Smithson in the 1950s. Curiously enough it is the Mackintosh chair that looks so much more contemporary (real date 1900) than the struggles of the Smithsons to design a chair that looks like a Pogo stick.

In between these two extremes lie the rich achievements of the English Arts and Crafts Movement — a marvelous cabinet by C. R. Ashbee, metalwork by Archibald Knox, and a chair and other furniture by the inventive Ernest Gimson.

There are examples of the work of the Omega Workshop — furniture painted by Vanessa Bell, Wyndham Lewis and Duncan Grant. Lutyens is represented as a furniture designer as is the later Eric Ravilious and even Basil Spence.

There are one or two brave and extraordinary things, particularly the great bed designed by Geoffrey Scott (of *The Architecture of Humanism*) — which is not unlike the St Ursula beds designed by Lutyens.

Unrestrained applause must accompany the opening of this collection but inevitably some questions arise. There are gaps to be filled and awkward choices to be made particularly where to show from the awkward 1930s decade of the 1930s. Placing something in this gallery is like bestowing the imprimatur and the public and the student is going to ask why it is there? The question is hard to answer without the support of long-term historical judgments and this is why I think we need to know more about the other works and achievements of the selected designers.

Publications will help but a major one is needed soon to correct the false perspectives of the "Pioneers of Modern Design Approach". This first display already goes a long way towards curing the stigmatised view of modern design and shows that the inclusive approach to collecting is far more honest and representative of our time. The V and A has done again what it does best of all — opened our eyes and broadened our vision — long may its new Trustees keep it on this path.

## Matthews &amp; Blake/BBC Maida Vale

Max Loppert

The current series of BBC Invitation Concerts at the Maida Vale studios has assumed, not quite fully, the burden of the disbanded (why?) College Concerts. Last Thursday's offering by the BBC Symphony under Mark Elder was a worthy coupling of recent works by British composers of what might be deemed, broadly but not wholly inaccurately, a neo-Romantic disposition.

Colin Matthews's Sonata No. 5, subtitled *Landscape*, is a substantial, chunky, and at only a single hearing rather unimpressive stretch of musical argument for large orchestra. Its half-hour length is supplied by three linked sections, across which a kind of journey is unfolded from musical darkness to musical light. The "sonata" in the main title indicates pre-

cedural sympathies rather than pinning the work down to a precise formal pattern. For the surface manner of the music is in fact one of extreme abruptness and sometimes violent contrasts depicting the "dream state" of which *Landscape* is intended to be a musical reflection.

So the opening hurries forward and upward, slowly and lengthily out of murky, double-bass-dominated orchestral depths; once these have been surmounted, a kind of Mahlerian frenzy tends to dominate, varied by an active, well-stocked percussion department, often jaggedly broken off, until at the close the movement of the music peters out in a sudden series of upward surges. In the Maida Vale studio No. 1, which cruelly irons out dynamic and timbral contrasts, Sonata

No. 5 seemed far more remarkable for its brute force of asseveration than for the intrinsic interest, variety, and malleability of its basic material.

The companion piece was the half-hour-long set of suites drawn by David Blake from his *Toussaint* (recently revived by the ENO), an exchange of airs for the title character (Well Howlett) and his wife (Sarah Walker) framed in brief orchestral recollections of the opera's three acts. The summarisation has been achieved to fine, clear purpose (though in this hall the two eloquent soloists tended to be submerged); the sum total of the movements was a colourful experience on its own account, as well as a reminder of an uneven but, at its best, potent and original piece of lyric theatre.

## British premiere of 'Esclarmonde'

Dame Joan Sutherland returns to The Royal Opera House on November 28 to sing the title role in the first British production of Massenet's *Esclarmonde*.

The opera was revived for Dame Joan in Vancouver, New York and at the San Francisco Opera where the present production was first mounted by the Canadian producer Lord Mansouri, who is now working at Covent Garden for the first time.

Beni Montrosser has designed the sets, costumes and lighting. The conductor is Richard Beryng, who has conducted all the modern performances of *Esclarmonde* with Dame Joan.

Ernesto Veronelli, the Italian tenor, will be making his Covent Garden debut as Roland.

## Glories of colonialism in Glasgow

It is exactly a month since the Queen opened the magnificent Burrell Collection, describing it as proof, if it is needed, that Glasgow leads from the front in matters artistic. There are indeed many excellent galleries in Glasgow — not all of them, like the Burrell, built at a cost of £20m — but they are feeling the pinch. Glasgow theatre, too, is comparatively thriving. But on shoeing.

No doubt Her Majesty's remarks could be read as complimentary towards both the Glasgow Citizens' 1986 Restoration of the Burrell Collection and the bustling little Tron Theatre which is a year old and half way through its first season under the directorship of Fynia Williams. £400,000 has been spent on converting the Tron Kirk, with its splendid Robert Adam domed ceiling, into a comfortable 230-seater.

The walls have been left to peel and the place has an early atmospheric charm. It is rather like Peter Brook's *Bombes du Nord* in Paris or the Almeida Theatre in London.

The Tron receives just over £50,000 a year in public subsidy, the Citizens about £400,000. The first is a friendly club theatre (over 5,000 members), the second certainly the most distinctive theatre in Britain and one of the best in Europe.

But while it is estimated that the Burrell gallery could cost up to £3m a year to operate and maintain, the Tron and the Citizens have to scramble along, playing their cards right with falling subsidies and the Arts Council, hoping against hope that things will improve.

And yet it is only because of them — and the Transport Museum (which is more or less falling down) — that the People's Palace and the poor old beleaguered Scottish Opera at the Theatre Royal — that Her Majesty can claim the Burrell to be anything remotely symbolic of cultural well-being in Glasgow.

People often wonder why I keep visiting the Glasgow Citizens. One simple answer is that they do plays that nobody else does. Another is that they do *recherché* items from the classical repertoire (Oronoko was popular throughout the 18th century but is virtually unperformed since then) with style, conviction, flair and imagination. They don't just do Oronoko (like the National Theatre just does, say, *The Fawn*). They make it live, breathe and jump.

The story of an Angolan

recently, by Jeffrey Kissoon as a lithe and lissom black panther converted from monarchial totem to champion of the oppressed by his faithful sidekick Abana (a very fine performance by Laurence Rudie). His beloved Imoinda, an Indian sired by a white father, is given a strange, lobotomised power by Johanna Kirby and the British in soiled suits and dark glasses are led by Claran Hind's patronising Governor.

The comic plot involves the tricking of a rapacious old widow by a girl who has fled, in

through the grilled trap. Gerry Jenkinson's lighting is exquisite and the whole evening an example of the confidence, finesse and visual flourish of the Citizens at their very best.

The Tron is about to revive Sam Shepard's *True West* and I trust it will be better than the play which finished its run yesterday. Richard Crane's Burke and Ford. This somewhat hackneyed subject was approached through the identity of the body-snatchers as a couple of impoverished Irish immigrants, which of course they were. But Fynia Williams's production was hopelessly boring, redeemed only by the folk singing of Frankie Mulrooney as various victims and whores and the quiet dignity of Derek Lord as Burke as he stood in the dock listening to his colleague's treacherous evidence.

This sort of scrappy fringe production is not only bad in itself but badly out of date. A bit of folk music here, a decently written scene there, a childishly jolly punch up on the eve of another murder Dr Knox (Martin Black) stands aloft delivering an anatomical lecture, miming bits of the body. He ends by quoting from his 1850 *Forest of Men* pamphlet forecasting the extinction of the Celt and world domination by the Saxons.

In the context of the play, this latest speech did not make much sense. In the context of history, of course, it makes even less. I cannot think why on earth Mr Crane included it. But then there were not many clues as to why he placed any of the play in the first place anyway. Dull, dull, dull.

Oronoko was a much better idea. And Oronoko, of course, had a much better idea. Like the Burrell Collection, the Citizens Theatre is a credit to Glasgow and has been there past 13 years. It is early days for the Tron but, as the work improves, it will surely justify itself as a challenge to the Citizens and as another jewel in the Queen's crown.

## Michael Coveney reviews Restoration tragedy at the Glasgow Citizens and a body-snatching scare at the Tron

Prince taken in slavery on the (then) British colony of Surinam was based by Southern on a novel of Aphra Behn. Southern's play is a fascinating mix of comic fortune-baiting intrigue and measured, dignified tragedy in the highest style of Dryden or Otway. The Citizens' director and designer Philip Prowse presents these contrasting worlds as a sordid, Manichaean idyll on a beach littered with old calls and skulls, a grey facade of a dubious shanty town facing the audience.

Mr Prowse has compressed two of the British planters into one character (thereby a little capsizing the comic subplot) and rendered two other characters dumb. But this does not really matter. The main thing is that the scenario of mercenary and frustrated love, of dignity in chains, and of revolutionary outburst when the royal prince Oronoko is stirred to action — all of this comes across in sensual, urgent terms. The play is a piece of a remarkable dramatic treatise on colonialism.

The prince is played, magni-

travesty disguise, the degenerate foppishness of Restoration London. The slavery theme expands from the tragic story at the centre to embrace the business of arranged marriages, even of domestic relationships (Jene Bertish as the Widow Lackitt keeps her son in a sailor suit at the end of a long rope). The status quo of marketplace ethics is first accepted by Oronoko then ravishingly rejected, Mr Kissoon launching his mutiny with a wonderful speech ("Thou hast roused the lion in his den" and, as a wedding party crosses the stage to the wheezy accompaniment of a baritone, prophesying his own colonial dynasty in the play in the first place anyway. Dull, dull, dull.

There are attempted stragglings, bloody immolations and a quite extraordinary suicide pact scene for the noble lovers that drives the play to its bizarre conclusion. Mr Prowse directs these passages with a relish both sensitive and florid. The bed-trick is handled with grotesque panache, the demise of the slave captain (Patrick Hannaway) hilariously arranged

## Bär, Cherkassky/Wigmore Hall

Max Loppert

To judge from his debut appearance on Friday, the judgment of the first, Walter Cruner International Leader Competition earlier this year in favour of Olaf Bär cannot have been a difficult one to reach. The young East German, in his mid-20s, is so attractive an artist — fair of face, candid and relaxed in his approach to an audience, and possessor of fresh, surely schooled, lyrical baritone — that in the midst of the usual earnest competition jockeying he must have arrived like a messenger from a distant land.

Throughout a delightful programme of Mendelssohn, Schumann, Wolf, and Strauss, all in the singer's native tongue, the impression struck and held was that of a young man, but of a grasp of the often mis-constructed recitalist's art that was at once sound, unassuming, and fully sensitive. The basic values were right and properly ordered. Diction was the sort of pleasure that only a native German baritone can give. The awareness of the lyrical impulse beneath each of the chosen songs was winningly direct — there was none of that unreasonably ambitious teasing out of detail and nuance that sometimes afflicts that young artist as a duty rather than an artistic discovery.

And the tone, except at the very top, though much, though only "real", was pressed sometimes unnecessarily hard in this hall, remained beautifully true of focus at all dynamic and pitch levels. In

several of the lyrical outpourings — Mendelssohn's "On Wings of Song" and Venetian Gondola Song, the more rapt meditations of the Heine *Dichter-Liebe* — Mr Bär could afford to pursue a still finer legato (his model in this, as in all things, should be Herbert Janßen). And it is easy to imagine how much sharper his view of Heine's glancing ironies and troubled enchantments is likely to become with further experience. Rarely has an account of the Schumann cycle by a debutant been so persuasive of a natural and personal response.

In the Wolf group, the light, delicate nuptial upon "Der Götter" and "Nimmersatte Liebe," quizzical and romantic at the same moment, suggested that the sharpening and maturing process is already under way. Here, as throughout the concert, the presence of Geoffrey Parsons at the piano must have been the greatest possible stimulus to artistic adventure: for Mr Parsons was on his very best form, at once following and leading the voice without ever drawing attention to his own vast experience in the field. A final Strauss selection was a reminder that, though Mr Bär has many gifts worth rejoicing in, the basis of them is a brave and handsome vocal instrument.

Shura Cherkassky's recital in the same hall the following evening was a rather mixed affair. The description does not apply to the programme, straightforwardly planned, with

none of the unexpected treasures Cherkassky sometimes likes to throw in — the Bach-Busoni Chaconne, both books of the Brahms Paganini Variations, and a Chopin piano to close. At best, it was an occasion that reaffirmed Cherkassky as master of more than just the novel frisson (though in the major-key middle variations of the first Brahms book the feline caresses and insinuating whippers supplied plenty of those); his bold playing of a grandly Romantic kind, no less a Cherkassky virtue. The paragraphs of the Chaconne were laid out with a superbly broad band; the whole piece moved with magisterial authority

towards its properly planned and placed climax.

Elsewhere, however, there were more than the expected number of misfires and mishaps. The centre of the Chopin B minor Scherzo was a magical intimation of dream-like soft voices (the main melody in octaves sounding almost like a glass-harmonica fantasy). But the larger outline of the piece could not be fully communicated because of the splashy passagework in both outer sections. Even at less than full virtuosity, of course, a Cherkassky recital is an exhilarating experience; but in this one it was a rather fitful kind of exhilaration.

## Guitarists, singers, big bands in Lewisham's first jazz festival

Two of the world's finest guitarists — Larry Coryell and Baden Powell — will perform together at Lewisham Concert Hall tomorrow, Tuesday. This is their only British appearance and it is also Baden Powell's debut in this country.

Cultural Baden Powell (whose surname is de Aquino) is the son of a violinist who was also a leader of the Brazilian Boy Scouts. He now lives in Germany in, appropriately, Baden-Baden.

The concert is presented by the UK branch of the Inter-

national Jazz Federation as a part of the First Lewisham Festival of Jazz which opens this evening with a concert featuring singers Brook Benton and Kay Starr and the National Youth Jazz Orchestra.

Other Lewisham Festival concerts are: Wednesday, George Fame; Thursday, Woody Herman and the Thundering Herd (sponsored by Citibank); Friday, Sarah Vaughan and Billy Eckstine and Saturday the Ted Heath Band (sponsored by News Shopper).

## Arts Guide

Music/Monday. Opera and Ballet/Tuesday. Theatre/Wednesday. Exhibitions/Thursday. A selective guide to all the Arts appears each Friday.

## Music

## LONDON

Halle Orchestra conducted by James Loughran with Peter Katin, piano. Mendelssohn, Chopin and Shostakovich. Royal Festival Hall (Mon), (8283101).

English Chamber Orchestra conducted by Sir Charles Mackerras with Vladimir Ashkenazy, piano and musicians of the Royal Military School of Music. Handel, Beethoven, Sussato and Mendelssohn. Royal Festival Hall (Tue).

London Symphony Orchestra conducted by James Galway, flute. Beethoven, Kodaly and Corigliano. Barbican Hall (8388895) (Tue).

Philharmonia Orchestra conducted by Kurt Sanderling with Minko Uchida, piano. Haydn, Mozart and Beethoven. Royal Festival Hall (Wed).

Chiltington String Quartet (Beethoven cycle). Queen Elizabeth Hall (Tue), (8283101).

English Chamber Orchestra with Vladimir Ashkenazy, piano and conductor. Mahler, Mozart and Bartok. Barbican Hall (Wed).

London Philharmonic Orchestra conducted by Christoph Eschenbach with Justus Frantz, piano, Mozart and Mahler. Royal Festival Hall (Thur).

## PARIS

Iva Ligabue recital (Mon) Theatre de l'Athenae (7627121).

Chamber Music J.-C. Penneret, piano. R. Pasquier, violin. B. Pasquier, alto. R. Pidou, cello. Brahms, Chausson

(Mon) Radio France, Grand Auditorium (8281518).

Zoltan Kocsis, piano: Debussy (Mon) T.M.F. Chatelet (8234444).

Pierre Assayag, violin. Michael Rudy, piano. Mozart, Brahms, Franck (Wed) Theatre des Champs Elysees (7232777).

Orchestre de Paris conducted by Jacques Couleuvre. Orchestra de Paris conducted by Arthur Oldham. Dvorak's Stabat Mater (Wed, Thur) Salle Pleyel (8630785).

Ensemble Musicale de Paris conducted by Wilfried Böhm. Jean-Philippe Collard, piano: Haydn, Mozart, Mendelssohn (Thur) Gaveau (8623030).

Ensemble E. R. Deuchelbach, Bach, Liszt. Beethoven, Chopin, Dukas (Thur) Theatre des Champs Elysees (7232777).

## WEST GERMANY

Berlin Philharmonia: The Berlin Philharmonic Orchestra conducted by Zubin Mehta and pianist Yehudi Menuhin play Rachmaninov, Penderick and Stravinsky (Thur).

New York Philharmonic (Avery Fisher Hall): Klaus Tennstedt conducting, Philip Myers horn. All-Stars programme (Tue) Andrew Davis conducting. Cho-Liang Lin violin. Marc Aurel, Sibelius, Nielsen (Wed), Lincoln Center (8742424).

Joey Newman: Carnegie Hall: Recital with Philip Moll piano. Schubert, Wagner, Duparc, Satie (Tue), (2471450).

## November 18-24

Musica Sacra (Avery Fisher Hall): Richard Westenburg, director. Mozart, Purcell, Jeremiah Clarke (Mon), (8742424).

Maria Badi: Gita Karasik piano recital. Scarlatti, Beethoven, Dutilleul, Chopin (Mon); Arnold Steinhardt violin, Victor Steinhardt piano. Beethoven, Janacek, Franck (Tue), 67th W. of Broadway (8625719).

## WASHINGTON

Philadelpia Orchestra (Concert Hall): Riccardo Muti conducting. Norman Carol violin. Penderick, Saint-Saens, Mendelssohn (Mon). Kennedy Center (2543778).

National Symphony (Concert Hall): Mstislav Rostropovich conducting/cello. Krzysztof Penderecki conducting. Galina Vishnevskaya soprano. Maureen Forrester contralto. John Gilmore tenor. Choral Arts Society conducted by Norman Scribner. All-Penderecki programme including the world premiere of Requiem (Wed), Kennedy Center (2543778).

## CHICAGO

Chicago Symphony (Orchestra Hall): Erich Leinsdorf conducting. Andre Michel Schub piano. Wagner, Beethoven, Stravinsky, Berlioz (Wed), (4586111).

Tonhalle: Stefan Askenase, piano. Beethoven and Chopin (Mon). Thomas Krammer, piano. Meiner, Brahms and Rachmaninov (Wed); Hagen Quartet. Haydn, Mozart and Brahms (Thur).

This was by far the German season's most enjoyable film festival: the 25th Nordische Filmtage Lübeck (November 3-6). The Northern Film Days — sometimes simply referred to as the Scandinavian film festival, takes place in the Hanseatic city of Lübeck on the Baltic. It is a 5 annual meeting place of film guests and representatives from Denmark, Finland, Iceland, Norway, and Sweden. Only films from the five Scandinavian countries are shown, but this is enough to draw a large gathering to view over a long weekend the season's product from the film studios in Copenhagen, Helsinki, Reykjavik, Oslo and Stockholm.

The silver jubilee brought out a record total of 400 registered guests. "We strained the capacity of our best hotels," mused festival director Bernd Flagemann behind his usual broad grin, "and this is not what you would call the high tourist season".

Many come regularly to Lübeck and the film festival to enjoy the delights of the city. It is a place where public officials gather with pleasure and the same goes for those associated with the production and appreciation of quality Scandinavian films.

It was a film club under pharmacist Rolf Hiller that presented the first Nordische Filmtage in September, 1956; with the exception of three years the series of recent and classical Scandinavian films has

been scheduled annually ever since. When the city's cultural minister offered a modest subsidy in 1971, the festival was officially housed in the Kammerspiele of the Städtische Bühnen, a theatre promptly equipped with appropriate projection equipment.

Several festival guests this year openly confessed to beginning each day with a prepared walking tour of the city. The famous Hans Memling "Passion Altar" (1491), commissioned as a triptych by the wealthy Greverade family for a private chapel in Lübeck Cathedral, is still in the St. Annen Museum (a former Augustinian cloister); it may find its way back shortly to the original site, now that the Dom has been fully restored.

Two of the town gates and several *Bocktorf-Gothic* edifices — among them, the oldest existing hospital (Holy Ghost Hospital) in Europe, constructed between 1276 and 1286 — delight the eye, but the building that attracts film people is the city's Salt Warehouse on the waterfront. Dating from the 18th century, the site served as the quaint, very backdrop for the harbour scenes in F. W. Murnau's *Nosferatu* (1922).

A dozen new and recent feature films drew healthy crowds to the Kammerspiele, while another dozen films comprised an equally attractive retrospective at the nearby Zentral-Theater. As an extra treat, the organization — Bernd Flage-

## Lübeck's Film Festival

Ronald Holloway

mann, together with Hans-Gerd Kastner and Hauke Lange-Fuchs — selected a series of children's films in an information section and invited directors of other German festivals (Berlin, Oberhausen, Mannheim and Wiesbaden) to send a prominent recent German production from their respective programmes.

There were salutes to both the festival and directors of past and present entries. Danish animator Bent Barfod has been entering cartoons for as long as participants here could remember. His latest, *Thor's Hammer*, was presented on the official opening night.

Another treat was Jørgen Roos's *Trollen* (Denmark), made especially for the silver anniversary and packed with images of today's Lübeck and stills and posters from past Northern Film Days. A third Danish film, Bjarne Henning-Jensen's *Dirte, Child of Man* (1946), received as warm a welcome from a young audience as it did at the first Scandinavian Festival in 1958.

The retrospective was an eminent success. Finland sent a recently restored colour-tinted copy of an early silent feature, *Erikki Karu's The Village Shoemakers* (1923). Sweden was represented by the Moritz Stiller classic silent, *Sir Arne's Treasure* (1919); the print itself is a glory to behold. Iceland was on the schedule with its "breakthrough film" *Agust Gudmundsson's Land and Sons* (1900), a

familiar title at several international festivals. Norway chose a prizewinning film by a well-known woman filmmaker: Anja Breien's *Wives* (1975).

To these should be added a specially produced documentary by Norddeutscher Rundfunk in Hamburg, Jochen Wolf's *Invasion from the North*, which was screened just before the festival and programmed again during the film festival. This document on the Scandinavian silent film (1909-29) pays special tribute to the heyday of the Swedish film, but another warm embrace is given to Nordic film production in Denmark: in 1906, 125 films were produced; in 1910, that total had risen to 203; in 1914, a peak of 288 was reached; and at the end of the first world war, in 1917, the Copenhagen studios were still turning out 108 productions.

Among the new Scandinavian productions a film from Sweden particularly impressed: Agneta Elers-Jarlemans *Threshold of Pain*. It is a documentary drama with a human message, about a young couple whose love is challenged to the limits by an automobile accident that leaves the male partner blind, mute, and half-paralysed. The filmmaker tells her own story without, so to speak, squeezing a lemon to make it cry. That film alone made the festival a memorable anniversary event in the Kammerspiele.

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## Mrs Thatcher and the Airbus

"I DO NOT want another Concorde on my hands," the Prime Minister remarked in the House of Commons last week, when pressed to give her support to the proposed Airbus A320 aircraft. In a firm response to the lobbying efforts now under way, Mrs Thatcher said she was anxious that the new aircraft should be a great commercial success.

She is right to be sceptical. The post-war record of government decisions on major industrial and technological projects is not encouraging. The very large sums spent on supporting civil aircraft and aero-engines have produced some technically impressive machines, but little commercial success. Concorde was the outstanding case, matched only by the choice of the advanced gas-cooled reactor (AGR) for the British nuclear power industry — one of a long line of bad decisions in the nuclear field.

## Weaknesses

Can anything be done to prevent a repetition of these errors? In his study of the Concorde and AGR programmes Professor David Henderson argued that weaknesses in the British administrative system increased the risk of error in its spending decisions. In particular the administrative system had the effect of "narrowing and constricting the flow of information and ideas at precisely the stage of the decision process at which different views, if they exist, should be actively sought out, articulated, widely diffused and openly discussed."

Another flaw, he thought, was the lack of a built-in check against professional or organisational bias. Too often "the only authorised and acknowledged sources of expert advice are interested parties to a decision or strongly predisposed to a particular course of action."

A similar point was made by Mr Keith Hayward in his recent

book, *Government and British Civil Aerospace*. "The experience of civil aerospace suggests that a closed policy system is not conducive to good decision making. There must be some opportunity to test policy assumptions, to query the range of uncertainty and to point to gaps in analysis perhaps deliberately omitted for political or bureaucratic reasons."

## Possibilities

Within Whitehall a body like the Central Policy Review Staff might have provided the necessary check — if it had not been disbanded by Mrs Thatcher. But as Professor Henderson pointed out, the CPRS was part of the official structure and had to respect the conventions. He favoured a new institution, outside Whitehall, specifically created to analyse and review British public expenditure programmes.

Parliamentary select committees can make some contribution here, but they lack the professional staffs which their American counterparts enjoy. There are attractions in the idea of a joint committee on industry and technology from both Houses of Parliament, especially in view of the high level of experience and knowledge which is represented in the House of Lords; but again the professional support would have to be substantial. Another possibility would be to expand the role of the Auditor and Comptroller General, so that he and his staff could examine the implications of major spending decisions before rather than after the event.

It is not enough for the Government to make more information publicly available, welcome though that would be. There is little tradition in the UK of expert, independent analysis of major technological and industrial decisions. It is unlikely to be developed without an appropriate institutional framework.

## A civilised institution

THE BRITISH Commonwealth is no more: it has long become the Commonwealth, yet its Britishness is patent. When the Commonwealth Heads of Government meet in New Delhi this week, the common language will be English — not as a foreign language learnt to communicate with foreigners, but the language in which most of them conduct their politics and public affairs at home.

With the language they have adopted a wide range of attitudes and habits. Pride of place goes to the democratic, parliamentary system. Nobody will pretend that all 48 member states of the Commonwealth are models of democracy. But it is a remarkable fact that only two have full-blooded military dictatorships. In a country as important as Nigeria democracy was re-established after a period of military rule.

The Britishness of the Commonwealth is seen also in the largely similar legal systems of the member states, which have been inherited from the former colonial masters. It is an important, though little noticed, function of the Commonwealth Secretariat in London to provide assistance to newly-independent states with the drafting of their legislation.

A peculiar blend of historic survivals with day-to-day pragmatism also reflects the Britishness of the Commonwealth. Though the Queen is head of the Commonwealth and head of state of most of its members, room has been found for those, such as India, which preferred a republican form of government for themselves.

## Evidence

But far more immediate practical differences need to be straddled within the Commonwealth. It embraces industrialised and developing countries; large regional powers and tiny island states; ancient political cultures and modern politics that have only just begun to emerge. Most of its members also have other alliances — in the Caribbean Community, Asean, the Organisation of African Unity Britain itself has joined the European Community, yet the Commonwealth survives.

It is remarkable evidence of that survival that the Commonwealth has survived a consistent line on one of the main questions of the age: that of racial equality and discrimination. In 1961 the heads of government, at Singapore, elected South Africa from the Commonwealth

for its pursuit of apartheid. Sixteen years later, at Cienfuegos in Cuba, the Commonwealth states committed themselves to a statement discouraging sporting contacts with the South Africans. At Lusaka, in 1979, they laid the groundwork for the policies which eventually led to the end of civil war in Rhodesia and the establishment of the state of Zimbabwe there.

## Controversy

None of this has gone by without controversy. Fingers have been pointed at Britain for being insufficiently firm in its rejection of South Africa. At New Delhi there will be more recriminations about sporting contacts. London may feel irritated, but the fact is that the Commonwealth link has helped to maintain a British involvement on the world stage. Such involvement ought to be generally accepted now that the European Community itself is attempting to play a role in extra-European politics.

Few immediate practical results are likely to flow from New Delhi. But that is not really the purpose of these meetings. At their heart there is a two-day "retreat" when the heads of government can talk far away from the Press and with no fixed agenda. This retreat provides the opportunity for ideas to germinate. It is a process of cross-fertilisation that can be very productive, even if the results do not show up for some time.

By providing a family bond across the deep divisions in the world today, the Commonwealth does fulfil a worthwhile function. It has tied Britain into a new and ever-changing world beyond the immediate European horizon. It has given many a former colony a greater feeling of security than it might otherwise have had.

Commonwealth supervision of an election and a team of commonwealth military advisers helped to pick up the pieces in Uganda after the Amin dictatorship. Agreement among all members about the U.S. invasion of Grenada was impossible, but there is the prospect of a part for some commonwealth states in restoring political order on the island.

We are dealing very much with intangibles. But intangibles often determine politics. The Commonwealth may be full of contradictions. It is no repository of real power, but it has proved its worth as a civilised institution.

WESTERN EUROPE'S computer manufacturers, long divided by nationalistic policies and personal rivalry, are at last discovering some common ground. Thrust onto the defensive by a resurgent International Business Machines (IBM), the world industry leader, they — with some support from U.S. manufacturers — have begun to pull together in an effort to change the competitive odds.

They aim to counter IBM's huge power by challenging its control over what amounts to the de facto technical standards for much of the market. More than three-quarters of the world's large data processing centres use IBM equipment, and it is estimated that its customers have invested some \$300bn in software designed to run on its machines.

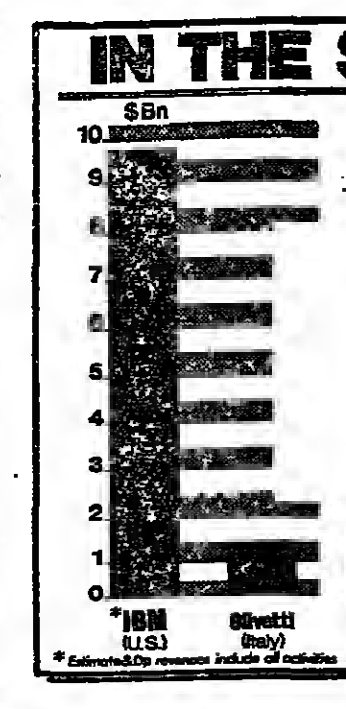
For some European manufacturers, the challenge is starting to look like a survival issue. A decade or so ago, several of them dreamed of taking on IBM head-to-head. But today, in spite of years of massive Government assistance to national flagships such as Britain's ICL, France's Bull and West Germany's Siemens, none of them can match it even on their home territory. As their market shares have dwindled, the burden of supporting their own systems standards — all of them technically different — has grown.

IBM, which had a total turnover of \$34.4bn last year, is the highest supplier in almost every country in which it operates. Its European data processing revenues of almost \$10bn last year, equalled the combined turnover of its 10 closest competitors. It employs more than 100,000 people — only a handful of them Americans — at 16 plants and nine research and development facilities in Europe.

Winning business away from IBM is no easy task. The company's sales force is highly skilled at exploiting its competitors' weaknesses and capitalising on "fear, uncertainty and doubt" among users faced with major purchasing decisions. Its formidable reputation as being the least-risk option is encapsulated in the industry adage that no data processing manager was ever fired for buying from IBM.

The European industry's hopes for turning IBM rest on a two-pronged approach. One element is the competition case brought three years ago by the EEC Commission. It has charged IBM with abuse of its dominant position for unfairly pursuing unfair business practices.

The central issue is the Commission's contention — hotly denied by IBM — that the company has inhibited its competitors by withholding vital information about its products until they are shipped to customers. Companies such as Amdek of the U.S., which make "plug-compatible" equipment designed to work with or replace IBM



machines, have long complained that the practice makes it much harder to compete. They, and a growing number of European companies, want IBM to publish the information when it first announces new products, to give them more time to develop compatible equipment.

The second prong is a drive to secure international agreement on common technical standards for the new generation of electronic information systems. These systems, which are expected to be one of the industry's biggest growth areas, use complex communications networks to link terminals and computers for purposes such as electronic funds transfer and office automation. Without common standards, it is hard to get terminals made by different manufacturers to "talk" to each other.

The ultimate European goal is to devise a comprehensive set of rules providing for "open" inter-connection of all kinds of terminals so that they can talk freely to each other over networks. If that could be achieved it would make it much harder for any manufacturer to impose its own standards on customers and competitors.

"It's not just a question of keeping a competitive industry," it's also about keeping open the electronic highway of the future," says Herr Klaus Luft, deputy chairman of West Germany's Nixdorf Computer, a strong supporter of common standards. Mr Michael Naughton, chairman of London, a British consultancy, adds: "Five years ago, standards were something of an academic joke. Today, they mean real live business."

Behind the impetus for standardisation lies a mounting European concern at IBM's increasingly tough tactics. For much of the 1970s, IBM appeared to be resting on its laurels. But in the past five years it has aggressively re-cap-

## EUROPE'S COMPUTER INDUSTRY

## IBM's rivals strike back

By Guy de Jonquieres

tured the initiative, accelerating the pace of its new product introductions, slashing its prices and expanding boldly into new growth markets.

It has stunned the rest of the industry with the landslide success of its personal computer, which has become the market leader in the U.S. only two years after its launch, and it is advancing into new fields including factory automation and computer-aided design.

It is also seeking with some success, to enter the telecommunications business in the U.S.

Many industry observers

of their machines. Its rivals accuse it of trying to fill competition.

"We are facing a different IBM than in the past," says Dr Elisabetta Pol, chief corporate planner at Italy's Olivetti, whose attempts to thrust into the U.S. personal computer market have been blunted by IBM's success. "IBM no longer allows room under its umbrella for others. It won't eliminate competition entirely, but only the fittest competitors will survive."

Many industry observers

## Fears of being crushed in a global battle between IBM and the Japanese

and Western Europe. It is supplying much of the West German Post Office's new public videotex information system and is in advanced talks with British Telecom on a plan to set up a nationwide electronic funds transfer network.

The network, which would be designed to be linked to as many as 700,000 terminals in banks and retail outlets, is envisaged as the backbone of tomorrow's "cashless society". IBM would provide the computers to control the network, data encryption techniques and the terminal access arrangements, with BT supplying the special communications systems needed.

IBM is also making it much harder for outsiders to discover exactly how its products work. For instance, it is concealing in some of its most powerful new software the "source code" which provides essential clues about how the programmes are constructed. IBM says the policy is intended to prevent customers from making unauthorised changes which could impair the performance

interpret the dropping of the U.S. Justice Department's antitrust case against the company early last year as a signal to IBM to pull out all the stops. Some also believe that the Reagan Administration views IBM as a powerful weapon for countering the Japanese challenge to U.S. leadership in advanced electronic technology.

Last year's FBI "sting" of Japanese companies accused of stealing IBM secrets, IBM has also stepped up its activities in Japan, where it appears to be pursuing a "divide and rule" policy by forging alliances with companies such as Matsushita Electric, with which it is not in direct competition.

IBM executives have, indeed, hinted privately that their main target is Japan, and that by taking its head-on the company is also doing Europe's electronics industry a favour. The argument has cut little ice so far with European companies, several of which in any case rely on Japanese computer manufacturers to supply some of

## European Data Processing Revenues 1982



their products and technology. The industry's fears of being crushed in a global battle between IBM and the Japanese have found an echo in the EEC Commission. Officials in Brussels admit that they are now giving their competition case higher priority than before.

They acknowledge that it could have important implications for the future of Europe's information processing markets and for the results of industrial collaboration on projects such as Esprit, the \$1.5bn EEC-backed research programme into advanced electronic technologies.

IBM is clearly taking it seriously too. It has lobbied hard against the charges in European capitals and earlier this month, it submitted a proposal for a negotiated settlement which is still being studied in Brussels.

Even if the Commission ordered IBM to amend its practices, however, the effect could be more psychological than practical. The technicalities of interface information are hideously complex, and some computer experts doubt whether it would be possible to enforce meaningful changes.

Some companies, including ICL, Olivetti, Bull, and West Germany's Nixdorf, believe that their drive for common standards offers a more effective method of balancing the competitive scales in the longer term. They are pressing hard in bodies such as the European Computer Manufacturers Association and the International Standards Organisation (ISO) to speed up the immensely cumbersome and long-winded process of standard writing.

The effort has started to bear fruit. The ISO has recently taken a number of what Mr Naughton of Langton calls "important and unexpectedly rapid" decisions on "open systems" standards for data and office networks. However, it is one thing to

agree on standards but quite another to get them implemented. The ISO's broad international membership harbours widely differing attitudes and traditions. The U.S. in particular, has historically looked at institutionalised standardisation often preferring to let the market decide. In Europe, by contrast, state telecommunications monopolies (STTs) have long acted as powerful advocates of national standards.

Even in Europe, the creation of a standard does not guarantee that it will be automatically applied. In Britain, for instance, more than three years after British Telecom published its standards for telex — an advanced, computerised telex network — the service is not yet in full operation and there are few suitable terminals installed.

The EEC plans to try to speed up implementation, however, by using public procurement power more actively. Talks are going on between the Commission, industry and European governments on proposals which would require a proportion of all public sector purchases of electronic equipment in the Community to be automatically national "open system" standards.

Proponents of common standards argue that, by opening up the market, they would give every section of the electronics industry a fair crack of the whip. Mr Robb Wilton, managing director of ICL, says that small entrepreneurial companies would have a better chance to sell innovative products internationally and large manufacturers would be freed to devote more resources to exploiting specialised market niches.

Even if the recent progress made in ISO and other bodies is sustained, however, considerable uncertainties remain. While much of European industry may endorse "open systems," they will have little impact in the huge U.S. market unless powerful American industrial interests overcome their pre-institutional standards.

Achievement of genuine common standards just within the EEC would be an advance on the hotchpotch which exists today. But it could prove a two-edged weapon. Turning the market into a free-fire zone could open up new commercial targets for Europe's smaller competitors.

Yet it would also place them even more directly in the firing line of the heavy industrial artillery of both IBM and the Japanese. If European manufacturers are to defend themselves successfully, they will need to buttress their new-found zeal for standards with sound corporate strategies, innovative products, efficient organisation and an aggressive will to win.

A second article will examine IBM's position in the French computer market.

## Men &amp; Matters

## Inside man

The Foreign Office today welcomes a new assistant under-secretary with more "inside" than any of its senior officials.

After two spells at the European Commission totalling nearly 10 years the high-flying Michael Jenkins will, among other things, begin grappling at once with the Cyprus problem as assistant under-secretary for Europe.

Jenkins first went out to Brussels as chief of cabinet to the Labour Commissioner George Thomson who was charged with developing the community's regional development policy.

After staying on for six months to help President of the Commission Roy Jenkins settle in, Michael Jenkins came back to the FO in 1977 to look after the section dealing with the EEC's external affairs.

In early 1979, Jenkins Roy Jenkins Michael back to the EEC to set up a Commission "think tank." Later Jenkins Michael was promoted

to the lefty and powerful post of deputy secretary general of the commission from which position he represented the Commission in the deliberations of the political committee (which prepares the foreign ministers political co-operation meetings).

If he wishes, Jenkins will now be able to snipe at the commission from his new perch. He will also be deputising at political committee meetings for the FO's political director, Julian Bullard.

## Chancellor's Bill

A hitherto unreported aspect of the autumn statement is that the Chancellor of the Exchequer may have consented to putting the household expenses of his own residence, 11 Downing Street, under the microscope.

When the BBC wanted to send round a radio car to conduct an interview on the morning after the statement, Nigel Lawson insisted that it should be equipped with copies of all the morning newspapers — so he could read their plaudits and/or criticisms before going on the air.

## Rude mechanicals

Women see engineering as an unfeminine activity associated with dirt, noise, strikes, and even unemployment, says Alex McKay, secretary of the Institution of Mechanical Engineers, which is naturally concerned about such matters.

"McKay thinks they are, in fact merely expressing the views of society in general but saying it more effectively than the boys." Pointing out the size of the credibility gap in the house, the journal of the professional engineers he says that fewer than 1 per cent of the institution's 77,000 members are women.

In fact only 150 women have graduated in mechanical engineering from British universities in the last five years.

The present picture looks marginally brighter. About 5 per cent of the institution's students are now women. But McKay believes the figure should be nearly 10 per cent. Too many women still see engineering as a profession embracing little but steelworks, foundries, and repetitive production lines, he contends.

## Wine waves

California is awash with wine. With litres of Gallo or Almaden table wine selling for under four dollars, Chablis and Burgundy are cheaper than Coca-Cola in many stores.

To make matters worse, European wine producers have deluged the state with their surplus which are promoted as snobbish alternatives to the common-or-garden local varieties.

To save California wineries from sinking beneath the alcoholic flood waves, and to combat the efforts of European competition, a group of senators in Washington DC volunteered to drink some of the stuff this week.

At Capitol Hill's first Press conference featuring a wine list, they announced the formation of a "wine caucus" dedicated to eliminating tariff barriers that American wines face in foreign countries.

The event was also a booster for a proposed "wine equity bill" that is under discussion in both congressional and senate sub-committees. The bill would give foreign wine-producing nations 100 days to eliminate import tariffs, or face the same tariffs and taxes that they impose on U.S. labels.

Uncovering the Caucus, Senator Pete Wilson of California, pointed out that Americans are buying \$750m

worth of foreign wines each year while U.S. producers can sell only about \$38m abroad. The imbalance has nothing to do with the quality of the wine, he assured reporters, sipping a sample.

Senators from New York, Washington and Virginia echoed his concerns. Also supporting the wine bill was Senator William Cohen from Maine. No Maine wines are produced, but "people in Maine sure drink a lot of it," said the Senator's aide.

## Plano forty

Phillips, the London auctioneer, will hold the world premiere of a new work composed for 40 pianos on Wednesday.

Forty out-of-work pianists, recruited through magazine advertisements, will perform *Work for Unemployed Pianists*, by Richard Reason, aged 35, a composer and Phillips' resident piano specialist.

The piece will be played on a range of instruments varying in quality from an \$8,000 Steinway grand piano to an upright for which the auctioneers are seeking £20. All the pianos are to be included in a sale later.

Thin pianists, who are required to be jobless and to have basic knowledge of the keyboard, will receive £5 each in expenses.

As Phillips cannot guarantee that all the pianos will be in concert pitch, guests are being advised to bring their earplugs.

## Out of control

A United Nations report says it is impossible to introduce family planning on a national scale in Iraq owing to shortage of manpower.

Observer

## 'Perhaps the bravest man I ever knew...'



## and now, he cannot bear to turn a corner

Six-foot-four Sergeant 'Tiny' G't'r, DCM, was perhaps the bravest man his Colonel ever knew. But now, after seeing service in Aden, after being badly-trapped and ambushed in Northern Ireland, Sergeant 'Tiny' cannot bear to turn a corner. For fear of what is on the other side.

It is the bravest men and women from the Services who suffer most from mental breakdown. For they have tried, each one of them, to give more, much more, than they could in the service of our Country. We look after these brave men and women. We help them at home, and in hospital. We run our own Convalescent Home and, for those who are homeless and cannot look after themselves in the community, our Hostel gives permanent accommodation. For others, there is our Veterans' Home where they can spend their days in peace.

These men and women have given their minds to their Country. If we are to help them, we must have funds. Do please help us with a donation, and with a legacy too, perhaps. The debt is owed by all of us.

"They've given more than they could — please give as much as you can"

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## BRITISH CIVIL AVIATION

## The coming policy crunch

By Michael Donne, Aerospace Correspondent

A MAJOR review of the UK's entire civil aviation policy, covering airlines, airports and route licence regulations, is now widely regarded as the airline industry's urgent.

This belief stems from the Government's own plans to privatise both British Airways and the British Airports Authority, and the reactions to those plans from the rest of the air transport industry.

The past fragmentation of government attitudes towards all three elements of civil aviation—airlines, airports and routes—has allowed each to develop in its own way, often with no regard whatsoever for the others.

The result is that in all three areas problems are surfacing which, it is argued, need urgent remedies. These can probably only emerge from the creation of a new, unified civil aviation strategy in which all elements of the industry are closely dovetailed.

In airline matters, the major forthcoming issue is the privatisation of BA, and the row developing over the fears of British Caledonian Airways and other independent airlines that they may be damaged or even driven out of business by the resulting monster.

In airports, the need is to settle, once and for all, the 30 years of wrangling over providing adequate airport capacity for London and the South-East. This means settling the row over whether to build Terminal Five at Heathrow or a major new airfield development at Stansted, coupled with a coherent policy for the long-term development of regional airports.

In route licensing, and regulation, the Civil Aviation Authority needs some new clear direction as to how far it can go in achieving more competition on domestic routes between public and private airlines, and between UK and foreign airlines on international routes.

Sir Adam Thomson, Chairman of British Caledonian, has submitted a scheme to the government for the purchase of some £200m of BA's assets prior to privatisation. Many in the independent airline sector argue that this is no mere "smash and grab raid," as Lord King, chairman of British Airways, has described it, but a genuine reflection of concern over the results of BA's impending privatisation.



Privatisation foes: Lord King of BA (left) and Sir Adam Thomson of BCal.

The current government intention is believed to be to go for 100 per cent privatisation of BA, which the airline's management would prefer, with a revised capital structure. The airline's £10m plus of debt will have to be either written off, or repaid (perhaps by the injection of new equity capital). It represents cash borrowed at commercial rates on world markets to buy aeroplanes, bearing heavy interest annually.

These debt repayments are guaranteed by the government against possible default by BA, and some provision for an adjustment or continuation of that guarantee will have to be given before privatisation can be achieved.

Having undergone a traumatic internal reorganisation, in which staff numbers have been reduced from more than 56,000 to about 36,500, some out some aircraft and some assets such as buildings sold, the airline's costs have come down sharply.

With a recovery in traffic now under way, it is back to profitability. For the first half of 1983, the net profit was £162m, with a forecast of between £200m and £250m for the full year. Lord King believes that if this recovery continues, BA will be ready for privatisation.

What is frightening the independents, headed by BCal, is

that BCal already accounts for 33 per cent of all UK scheduled domestic and international passenger seats available. BCal has only 13.4 per cent and the other independents the rest.

If, on top of this, BA is given a virtually clean balance sheet and a new capital structure, it will emerge as one of the most powerful forces in world civil aviation.

Sir Adam says it would be "unfeasible" and could "settle" the UK independents. An unspoken, but parallel, fear is that, although privatised, BA will remain in many Government and Whitehall minds as the major UK flag carrier and will thus win preferential treatment in future allocation of route rights, both domestic and international.

The volume of assets sought by BCal represents only about one tenth of BA's overall turnover. If achieved, it would still leave BCal controlling 70 per cent of all UK scheduled air transport effort.

Where the BCal plan is more open to question is Sir Adam's threat of quitting Gatwick and seeking to put all BCal's flying operations into Terminal Four at Heathrow (now being built), while keeping its maintenance base and headquarters at Gatwick.

Sir Adam argues that by operating even his present net-

work out of Heathrow, he could make some £25m extra profit a year.

Whether such a switch is actually possible is debatable. The British Airports Authority is now discussing the future occupancy of Terminal Four, capable of handling 8m passengers a year. It becomes available in 1988, and BCal does not yet figure on the list of serious contenders. Moreover, BCal moving to Heathrow would cause immense overcrowding at that airport, and some existing airlines there might have to move out.

They would probably regret it, as past experience in trying to encourage some of them to move to Gatwick voluntarily has shown.

Yet another factor is that BCal would have a big addition to its costs with its flying at Heathrow and its maintenance at Gatwick.

The heavy additional cost of such a "split base" operation is one reason why so many airlines BA included, have been so bitterly opposed to the proposed development of Stansted in Essex, and have favoured yet another terminal—Terminal Five at Heathrow.

Any BCal descent on Heathrow would probably strengthen the case for developing Terminal Five there, just to create more room on the ground. But it would probably also necessitate the Government abandoning its plan for a ceiling of 275,000 aircraft movements at the airport when Terminal Four comes into operation, pushing five figures a year to perhaps 300,000 or more, with all that would mean environmentally.

At the same time, it would create spare capacity at Gatwick, just when a new terminal there is being built to push capacity up from 16m to 25m passengers a year. The Government would thus be faced with hopeless overcrowding at Heathrow, getting progressively worse, along with unused new capacity at Gatwick, and a vast available space at Stansted.

That is why it is almost impossible for the government to separate the need for a new airlines policy from a new airports policy.

The most critical issue is deciding between Terminal Four at Heathrow, or developing Stansted.

This is closely coupled with the government's plan to

privatise the British Airports Authority.

If the Government decides to fragment the Authority, selling off major airports as entities in their own right, any fifth terminal at Heathrow, costing several hundred million pounds, could probably be paid for out of Heathrow's profits, and be of material long-term benefit to that airport's finances.

But that would be a disaster for the Airports Authority. A BAA deprived of Heathrow would be a heavy loss-maker (Heathrow profits, and to a lesser extent those from Gatwick effectively subsidising everything else), and any decision then to develop Stansted would be thrown back onto public funds, which is the last thing the Government wants. An authority privatised as a single organisation would be much better placed financially to undertake whatever the Government decided to do about developing new airports or terminals.

This is where airline regulation also comes into the debate. There is increasing criticism of the way in which the Civil Aviation Authority licences airlines on UK domestic and even international routes.

BA is bitter because the CAA has given routes to independent airlines to compete with it at home, and the independents are upset because they cannot get an adequate share of lucrative international routes. This is because the current system of dividing traffic with foreign flag airlines favours BA in the UK and because foreign governments are reluctant to give up anything to additional British airlines on specific routes.

There is a lack of formal government direction to the Civil Aviation Authority on the overall "liberalisation" issue on domestic routes, and many independent airlines feel that not enough is done by Whitehall to help them win international routes.

The upshot of all these issues, therefore, is a belief by many in the industry that there is a vital need for a coherent government strategy to ensure that as air traffic grows through the rest of this century, all the elements in the civil aviation system can also grow profitably and smoothly.

## The Autumn Statement

## How the Treasury reached those forecasts

By Samuel Brittan

## THE PUBLIC SECTOR DETERIORATION

	Figures in £bn	1983 Budget	Autumn Statement	Difference
General Govt. expenditure	126 1/2	126 1/2	0	
Interest payments	14	15	+1	
Adjustments to national accounts definitions, etc.	4 1/2	5	+1 1/2	
Total expenditure in national accounts terms	145	146 1/2	+1 1/2	
Tax yield	102 1/2	104	+1 1/2	
Nat. Ins. contributions etc.	22 1/2	22 1/2	0	
Interest and other receipts	11 1/2	11	-1/2	
Accounts adjustments	13 1/2	13 1/2	0	
Total receipts	150 1/2	150 1/2	0	
of which N. Sea	8	9	+1	

£1bn positive adjustment or tax give-away forecast in the March version of the Medium Term Strategy to a tentative tax increase of the same amount, especially when faster than expected growth should be boosting receipts. The public sector table shows the main changes for 1984-85. Receipts are indeed £1bn up on the earlier estimate; but "total expenditure in national accounts terms," the concept used for estimating the PSBR, is £1 1/2bn higher.

The main reason for the increase in the spending aggregate is a higher estimate of National Debt interest, partly consequent on the higher than expected borrowing in 1982-83 and 1983-84.

The chief moral is surely that the public finances are now very finely balanced and any change in the productivity or statistical discrepancy can put a strain on the PSBR objective.

Much more interesting and important are the productivity changes, indicated in the Autumn Statement and here spelled out in tabular form. In the last pre-oil shock decade output per worker in the whole economy was rising at an average annual rate of nearly

3 per cent. In the first complete cycle after 1973, until 1979, average productivity growth dropped to just under 1 per cent. At the onset of the recession in 1980, it fell to minus 2 per cent. Since then it has been rising by 2 1/2 to 3 per cent; a great improvement on the post-1973 period, but still not quite up to earlier standards, except in manufacturing. The Treasury has made the conservative assumption that much of the recent productivity gain is a once-for-all and that the trend will move down to something like 1 1/2 per cent. (It should, however, be temporarily higher in 1984 for business cycle reasons.)

On these assumptions, and allowing for, say, 1 per cent per annum growth in the labour force, there will be some scope for employment to recover and unemployment to fall very gradually if output continues to grow by 3 per cent.

Suppose, however, that this assumption is too conservative and British productivity rises more quickly to close the gap with continental Europe? One very optimistic outcome might be that the GDP would continue to grow by an annual 5 per cent in money terms, but 4 per cent will be output and only 4 per cent domestically generated inflation. But it would be too risky to rely on inflation moving down with sufficient speed; and there would be a clear case for a slightly more permissive attitude to monetary (or even fiscal) overshoots to allow the GDP growth to average, say, 9 per cent in the years immediately ahead if the aim is to have unemployment on a falling path.

## TREND OF PRODUCTIVITY GROWTH

	1963-1972	1973-1979
Whole Economy	2.9	0.9
Manufacturing	4.2	0.9
ANNUAL CHANGE IN PRODUCTIVITY (%)		
1980 on 1979	-2.3	-3.8
1980-83 average	2.7	5.4

Financial Times estimate

## Letters to the Editor

## The benefits of ownership by employees

From the Director of Operations, Job Ownership.

Sir,—The thought-provoking quality of Samuel Brittan's asset-give-away approach to privatisation (Economic View point November 17) should not obscure the real potential benefits of the alternative employee ownership solution. The latter is much the more likely to generate improved performance and what the Americans call "bubble-up" productivity gains. There is increasing evidence that something of the kind has already started to happen at the National Freight Consortium (NFC), the example cited by Mr Brittan.

Employee ownership may be unrealistic solution for the more capital-intensive of the nationalised industries. But even in such cases partial employee ownership should not be dismissed out of hand. When assets per head are in the same order as those at NFC then, provided that at least a strong and well led minority of the workforce favours this solution, it should be preferred.

The figures associated with NFC's workforce buy-out last year do much to dispose of Mr Brittan's chief objection to that solution: namely that for people to have both their jobs and their savings tied into the

same enterprise involves unacceptable risks. NFC's ownership changed hands at a price of some £58.5m. Then, as now, its workforce total came to around 26,000. Even if its employees had had to find the entire purchase price themselves, the sum involved per head would have been not much greater than £2,200. If that is set against current average life-time earnings of between £250,000 and £300,000 the dimensions of the extra risk become immediately apparent.

Workforce buyouts are quite different from asset handouts. This solution is not a matter of giving the relevant assets to the workforce instead of as Mr Brittan proposes, to the citizenry. One main argument for a sale rather than a gift is that people tend to feel differently and more positively about something for which they have had to pay. The workforce buyout has the extra financial advantage of bringing in new savings—which would otherwise almost certainly not be available for productive investment.

Though a sale of assets to existing employees is quite different from a give-away transaction, the price can be fixed at a level which takes some account of what one might

call sitting tenants' rights. It seems entirely fair and reasonable that the price of a publicly-owned undertaking should be lower to its own employees than to outsiders. There is some evidence that NFC was successful in pressing this argument when the price of that buyout was fixed.

NFC's experience leaves no room for any doubt about the acceptability of these solutions to the City and the financial institutions. In return for a remarkably small equity stake the banks were ready to finance more than 80 per cent of the buyout price in the form of loans.

Those who support workforce buyouts where the conditions are appropriate need not reject Mr Brittan's asset-give-away approach where they are not. It would be odd if the same solution was appropriate in the case of say British Telecom on the one hand and of some national industry on the other. It would be hard to believe that the Treasury could ever be persuaded to endorse give-aways.

There may also be a more psychological objection to them. Give-away shares might come to be seen as "funny" shares. Robert Oakshott, 9, Poland Street, W1.

## Proportional representation

From Mr D. Townsend

Sir,—While I would in no way dissent from Michael Slavin's assertion (November 11) that my proposal for election by "vote ranking" is in fact extraordinary, I feel that his own letter is also, in its way, quite remarkable.

He appears to take exception to my endorsement of the point made by Bernard Murphy (October 19) that many of the alternatives to our existing logical voting system do not guarantee true proportionality. He then, surprisingly, provides an illustration of a transferable voting system in a four-member constituency in which the three major parties which have 50 per cent support. The only conceivable outcome of such a constituency under a transferable voting system would be that two parties would obtain one seat each and a third party would obtain two seats. I.e. 50 per cent.

If this is "true proportionality" it falls short of what I believe FA should be seeking to achieve, namely, a parliamentary representation in which the allocation of seats among the major parties is in the same ratio as the total vote cast rather than the 50 per cent. If this is not the case, the term should be consigned to the catalogue of Orwellian Newspeak.

David Townsend, 11 Jansmead, Hutton, Essex.

## Market makers and managers

From Mr J. Scrope

Sir,—You published (November 10) a thought-provoking article by Mr LeRoy-Lewis which concluded by pointing out the virtue of retaining some degree of separation of capacity between market makers and agents.

Neither Mr LeRoy-Lewis nor Mr Jacobson in his earlier paper has noted the other and more important separation of capacity which is implicit, but rarely appreciated, in existing arrangements: that between market maker and fund manager. This is the true cornerstone of confidence between savers and those through whom they channel their savings, be they pension funds, insurance companies or unit trusts.

May I suggest that this separation is an essential element of investor protection and is in danger of being overlooked?

J. Scrope, 30, Finsbury Circus, EC2.

## For better or worse?

From Mr E. Wood

Sir,—Many people will applaud the efforts of the job creationists described in the Management Page (November 11). Like motherhood, job creation has become a sacred term which must be revered.

But before we become blinded by the propaganda of these policies, we should ask ourselves a question. From where do the bodies like the Manpower Services Commission, the EEC and the local authorities get the money they spend on these schemes? The answer is, of course, from the taxes levied on the people who are creating wealth in normal economic activities.

If these "job creation" schemes were prohibited, taxes could be lower. In the short term, unemployment would be higher among intellectuals, consultants and management teachers. But in the long run, the effect of reducing taxes would be "to allow the money to fructify in the pockets of the people," thus reducing unemployment. We might then get the goods and services that people really want rather than

those prescribed by the job creation experts.

Of course, this won't happen. The solution is too simple for the bureaucratic mind. But we should not allow the vested interests of those involved in the job creation industry to mislead us into thinking that, without them, we should be worse off.

E. G. Wood, 27, Towncliffe Lane, Morpeth Bridge, Stockport, Cheshire.

## Platinum coins

From the Director, Modern Coins, Spink Modern Collections

Sir,—May I refer to the article (November 4) about the new Isle of Man platinum coin?

Over the past 10 years the Isle of Man Government has authorised a considerable number of coin designs, for commemorative issues and for normal currency use, and a variety of metals has been used, including platinum. The claim that the "noble" is the first platinum coin for 150 years is, therefore, untrue and I would suggest that the source of your

correspondent's information be required to publish a correction.

I may, of course, be incorrect in assuming that those earlier issues, starting in 1975, were coins, in which case the Isle of Man Government has misled many collectors.

Leaving aside the Isle of Man, may I mention the 150 roubles coins of the USSR, struck in platinum from 1977 to 1980. The Royal Mint has also struck platinum coins on several occasions for overseas client governments.

Geoffrey Elchen, 29-35, Gladstone Road, Croydon, Surrey.

## A \$1 trillion sector

From the Chairman, Mackintosh International

Sir,—Unfortunately in printing my letter on November 18 the worldwide output of the electronics industry was given as £50bn—this should, of course, have been \$50bn and it will be the first manufacturing sector to exceed \$1 trillion (million million) of output.

(Dr) Ian Mackintosh, Mackintosh House, Napier Road, Luton, Beds.

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# FINANCIAL TIMES

Monday November 21 1983

**RUSH & TOMPKINS**  
 Property Investment Development  
 & Construction 01-300 3333

Terry Byland on  
Wall Street

## Aerospace set for a bumpy ride

McDONNELL DOUGLAS's decision a week ago to halt work on two proposed commercial airliners sent Wall Street's aerospace analysts hurrying to their computers to reassess their view not only of the company but of Boeing, its sole U.S. competitor in the civil airframe business.

Stocks in both companies attracted buyers at the beginning of the week. But by Friday, investors had a batch of analysts' reports to study and both stocks had lost the week's gains.

Neither Boeing nor McDonnell has been particularly successful in stock market terms over the past month, and their share prices are now respectively 15 and 11% per cent off their 12-month peaks.

However, McDonnell's decision to cancel development of the MD-90 and of the MD-100 has prompted some fundamental revision of the outlook for both Boeing and McDonnell stocks.

Company	Price on 52-week Friday	Range	P/E
McDonnell	55 1/2	62 1/2 - 48 1/2	3.5
Boeing	40 1/2	45 1/2 - 35 1/2	11

There is general agreement that the decision is good news for investors in McDonnell Douglas, at least in the immediate term. The respectable Demisch Brothers, Wolfgang and Christopher, who analyse aerospace stocks for First Boston, believe that McDonnell has been losing money on civil aircraft for the past quarter of a century. Lack of orders for the two projects now cancelled had virtually guaranteed further losses for the next few years.

But, in the wake of the cancellations, the First Boston duo are raising their profit forecasts for 1986-87 at McDonnell. This year's forecasts remain unchanged at \$6.30 a share against \$5.44 in the previous year. But for 1984, the forecast is now up from \$7.00 a share to \$7.75 a share, with \$10.00 a share forecast for 1985.

At Prudential-Bache, Paul Nisbet predicts \$6.65 a share this year but holds to an earlier forecast of \$8.00 a share for 1984.

McDonnell's decision to halt the two developments marks a significant retrenchment of the group's position in world civil aerospace markets and raises the question of whether it will withdraw from that market altogether, as Lockheed did two years ago when it killed the L-1011 programme.

Wall Street is also closely monitoring the strike against McDonnell now into its second month. The McDonnell board warned at the outset that a three-month stoppage would force the company out of the commercial aircraft business - a threat taken more seriously on Wall Street after last week's decisions.

A withdrawal from civil airframe building would certainly benefit McDonnell's earnings by wiping out the long running losses on the civil side. But it would have even greater significance for Boeing which would then have a commanding position in the world aerospace industry.

Like the other manufacturers, Boeing loses money on its civil building division. Mr Alan Benasuli at Drexel Burnham Lambert puts Boeing's earnings at \$3.70 a share for this year, but comments that this takes in a probable loss of about 50 cents on the civil airframe side, leaving the laurels to Boeing's military divisions which make the Minuteman and MX missiles.

The multiple of 11 times earnings at which the stock traded on Wall Street thus reflects the military side only. Any recovery in Boeing's civil aerospace profits would mean a significant re-rating of the stock price.

Some analysts see Boeing taking about 75 per cent of the world market for civil airframes if McDonnell withdraws. "No company in the free world has that sort of grip on its market," comments Mr Benasuli. On this basis, he predicts that Boeing could be earning between \$6.00 and \$8.00 from its civil side alone by 1987. With the military side also set for further strong growth. Prospects for earnings overall could be substantial.

The coming month could bring a substantial re-positioning of aerospace portfolios. McDonnell Douglas may be a short term gainer from the reduction of its civil aerospace programme. But the question still to be answered is whether its strike will be settled before January and what the board will do if it is not.

Airbus and Boeing battle royal, Page 5.  
 Editorial comment, Page 18

## UK shares and gilts 'to rise 25% by 1987'

By MAX WILKINSON, ECONOMICS CORRESPONDENT, IN LONDON

BRITISH EQUITIES and government securities will rise in price by about 25 per cent during the next three years, the London Business School's centre for economic forecasting predicts in a report published today.

Government sales of gilt-edged stock in the 1986-87 financial year will be about £3.5bn (\$5.25bn at current exchange rates) less than in 1983-84, the centre says, creating a shortage which will tend to drive up gilt prices.

"The outlook for equity prices is buoyant with increases of some 7% to 10 per cent per annum," adds the centre in the first issue of a new quarterly, *Financial Outlook*, which is intended to supplement its usual economic forecast.

The expected increase in equity prices reflects the rapid rise in dividends and profits this year and those forecast for 1984 and in 1985. "By 1986-87 we expect dividend payments to be some 75 per cent above their 1982-83 levels. Consumer prices are forecast to rise only half as much."

A 25 per cent rise in gilt prices from 1983-84 to 1986-87 compares

with a forecast rise in consumer prices of about 20 per cent over that period.

The quarterly also includes a call to the Conservative Government for a radical change in policy aimed to bring down long-term interest rates.

The centre is pessimistic about the extent to which this will happen under present policies, believing that yields on long-dated gilts will be about 8 per cent by the end of the period, against 8.5 to 10.1 per cent at present.

To reduce rates further, it says, the Government should sharply reduce the sale of gilt-edged stocks with a matching run-down of its £3bn portfolio of short-term commercial bills.

Companies would then be encouraged to switch their borrowing to longer-term instruments in a revived debenture market, and the money supply would tend to fall.

This proposal, which is admitted to be risky, does not at present seem likely to find favour with the British authorities, but the centre says that the alternative would be

"little further progress on interest rates and monetary growth."

The centre also forecasts a rapid increase in borrowing for home purchases over the period. This is expected to increase by about 40 per cent in real terms between the start of this year and the beginning of 1987.

The majority of this increased lending would come from building societies rather than banks, which are expected to maintain a share of about 30 per cent of new mortgage lending in the period.

The centre says: "The steady release of house equity will on our forecast reflect the relative cheapness of mortgages compared to other forms of borrowing assuming that tax relief continues."

The Bank of England has recently expressed its concern about the extent of the "leakage" of subsidised mortgage loans into the purchase of things other than houses, like yachts, cars and household durables. If borrowing seemed likely to expand at the rate projected by the business school, the authorities might attempt to curb that growth.

Details, Page 8; Retail sales booming, Page 7

## Britain plans new insolvency and investor protection laws

By PETER RIDDELL, POLITICAL EDITOR, IN LONDON

BRITAIN'S Conservative Government is planning a phased programme of legislation over the next two or three years which will have a major impact upon the City of London and investors.

Proposals are being prepared to overhaul the laws on insolvency and investor protection and to encourage the revival of personal shareholdings.

Consequently, the bill to be debated in the House of Commons tomorrow to exempt the Stock Exchange from proceedings under the Restrictive Trade Practices Act is likely to be the first of a series.

Mr Alex Fletcher, the Under-Secretary for Corporate and Consumer Affairs, and his officials are considering two major new Bills. First, work is well advanced on a White Paper (policy document) to update the law on insolvency in response to the wide-ranging report last year from a committee under Sir Kenneth Cork. The Government is likely to accept the proposed simplification of liquidation and bankruptcy procedures, though there is still some debate about detailed issues.

The White Paper should be ready before Christmas, though it may not be published until the New

Year. The hope is that a sizeable Bill will be introduced in the 1984-85 parliamentary session.

Second, the final report on investor protection by Professor Jim Gower is expected around the end of this year. The Government hopes to complete the consequent consultations in time for another White Paper next summer. However, there may not be room for two major City Bills in one session and the Securities Bill may be delayed until 1985-86.

It is clear that ministers broadly sympathise with the proposal in Professor Gower's interim report last year in favour of self-regulation with statutory backing and Department of Trade and Industry powers of inspection.

Mr Fletcher has made no secret of his desire to promote a system of investor protection which will permit a revival of personal share ownership. On a visit to U.S. financial markets last month he was apparently impressed by the widespread retail outlets selling shares. However, the Government remains insistent on a central market in securities.

In parallel, the Treasury and the Inland Revenue are considering possible tax changes to encourage individual shareholdings, including employees' shareholdings as part of the Prime Minister's drive to broaden property ownership.

As for the Stock Exchange, Mr Norman Tebbit, the Trade and Industry Secretary, is expected to be pressed by MPs to give the Government's view of the changes in structure implied by the recent purchase by outsiders of large shareholdings in big jobs and broking firms.

The Bill is strongly opposed by the Labour Party and by the other main opposition parties and there are reservations among some Conservative MPs.

The Government is considering how to comply with new EEC directives that requirements for company listings for share quotations should be put into law. This will involve some form of legislation by the end of next spring.

The problem is how far the Stock Exchange's rules should be built into legislation and how far the council of the exchange can be designated as a competent authority to apply the directives. Any proposals might anyway be overtaken by the Securities Bill in two years' time.

German Government, and the Soviet Union, for not seriously trying to reach agreement in the deadlocked Geneva talks.

In doing so, the SPD momentarily disowned its former Chancellor, Herr Schmidt, who argued in a powerful speech that the Federal Republic could not now break its word on missile acceptance, and had to back its key ally, the U.S. at this crucial juncture.

But only 13 of the 400 delegates in Cologne supported him. In addition to Herr Schmidt, this tiny minority included two former SPD defence ministers, Herr Georg Leber and Herr Hans Apel. The key personal relations between Herr Schmidt and Herr Brandt were plain for all to see.

Meanwhile, confusion reigned in Bonn last night over the nature of any new Soviet "proposals" in Geneva.

In Washington, Mr Richard Perle, Assistant U.S. Defence Secretary for international security policy, predicted that, if the Soviet negotiators walked out of the Geneva talks as a result of the Nato deployment, "they'll be back."

## Unions criticise Bonn over 35-hour week

By John Davies in Frankfurt

THE WEST GERMAN Government has come under heavy fire from leading trade unionists over its opposition to a shorter working week and its plans to dispose of state holdings in commercial enterprises.

At a weekend conference of IG Metall, the metalworkers' union, leaders of the 2.5m strong union proclaimed their determination to battle for a cut in the working week from 40 to 35 hours.

Herr Hans Mayr, the president, described the Government's proposal to subsidise early retirement on part-pay as a bid to drive workers into poverty and divide the unions.

He accused Chancellor Helmut Kohl of undermining the principle of independent worker-employer negotiations by dismissing the 35-hour-week claim as "absurd and stupid."

IG Metall, the country's biggest trade union is bracing itself for possible strikes in the new year.

It argues that a shorter working week would mean more jobs and lower unemployment. It is backed by some powerful unions, including the print workers, but other unions have reservations.

Meanwhile, 5,000 unionists demonstrated in Hanover at the weekend against government plans to dispose of state holdings. Herr Ernst Breit, president of the DGB trade union federation, said that the state must continue to play a role in important undertakings.

The Government announced last month that it would cut its stake in Veba, the oil and industrial concern, from 47.5 per cent to 30 per cent and later to just over 25 per cent.

Bonn is considering reducing its stake in other enterprises, including its 74.3 per cent holding in Luft Hansa, the West German airline.

The state government of Lower Saxony has indicated it would not rule out reducing its 20 per cent stake in Volkswagen, the motor vehicle maker, in which Bonn also has a 20 per cent holding.

The latest trade union attacks on the federal Government reflect a widening gap between ministers and the more militant unions.

IG Metall, which is acting as a spokesman on the 35-hour week claim, is being drawn into more open conflict with the government not only on this issue but also over demands for aid to stricken shipyards and the steel industry.

Herr Franz Steinkühler, the outspoken deputy president of IG Metall, accused the Government of blackmailing the workers of Arbed Saarstahl by withholding aid unless they accepted less favourable terms for early retirement.

## Syrians shoot down Israeli fighter

Continued from Page 1

Both Damascus and Jerusalem are prepared to escalate the military actions of their forces in Lebanon. The last time the Syrians shot down an Israeli plane was in July last year.

In further fighting in the northern Lebanese city of Tripoli heavy shelling has erupted between members of the PLO loyal to Mr Arafat and those who wish to displace him. Much of the shelling has fallen on Baddawi refugee camp which is at the centre of the conflict.

Syria is giving heavy artillery and some tank support to the PLO rebels, but it is not clear how far its men are involved in the fighting as the official Syrian position is that it is playing no role in the battle for Tripoli and diplomats confirm that no fresh Syrian units have been moved into northern Lebanon to reinforce the brigade there.

David Marsh in Paris writes: Mr Charles Hernu, the French Defence Minister, said yesterday that France had "punished terrorism" in its air force attack on Thursday against a military training camp near Baalbek in eastern Lebanon.

His remarks came as the French Government and police were seeking clues whether a bomb raid on a Paris restaurant late on Saturday night, which wounded 30 people, was a terrorist counter-attack.

Fearing reprisals from pro-Iranian urban guerrillas after the jet raid on the Shia Moslem camp, the Paris Government has reinforced police patrols and tightened security on public buildings.

The attack in Paris at around midnight on Saturday came as a bomb or grenade was hurled at a restaurant near the Bois de Boulogne packed with late-night diners, including several children. The raid could have led to many deaths, but the bomb fortunately exploded on the terrace outside.

## THE LEX COLUMN

# A riddle from the Chancellor

The Chancellor of the Exchequer's speech last Thursday may have set some sort of record for the number of puzzling questions raised in a space of less than 10 minutes. As a matter of tactics, the City of London found it hard to relate his official optimism on inflation and growth to the austere warning of increased taxes. In much the same vein, restricting planned asset sales to under £2bn (£3bn) - inclusive of Enterprise Oil at £400m - seemed rather strange to a market which had been so assiduously prepared for something like twice that amount.

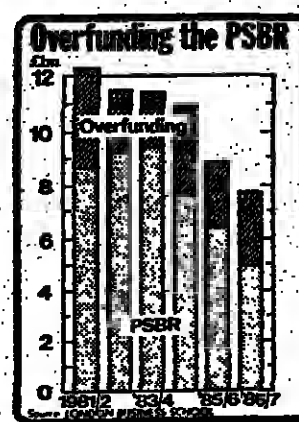
Beneath this sprinkling of conundrums, however, a more genuinely remarkable aspect of the statement was how pointedly it avoided discussion of strategy. Yet this would have been altogether in order, for the Government's economic blueprint - the Medium Term Financial Strategy (MTFS) - has looked increasingly fuzzy of late. Although the objectives of controlling inflation (and lowering interest rates) remain central to the plans, it has become difficult even for the expert monetary technicians in the City to see how some crucial parts of the design are now supposed to work.

In particular, the part played by the public sector borrowing requirement (PSBR) has become disconcertingly foggy, from at least two viewpoints.

It has been widely noted that the heavy programme of asset sales has made nonsense of the PSBR as a measure of the fiscal and monetary stance. Revenue from the disposals cuts into borrowing needs directly, but since an asset can normally be privatised only once, the underlying need for finance remains unaffected. The sales also mean that a given PSBR total is consistent with a higher level of activity; as a consequence, to reduce the ratio of PSBR to GDP counts as less of a policy triumph than originally expected. All in all, it was only sensible to couple next year's un-audited PSBR target of £3bn with a hint of rising taxes - the number is now more expansionary than when it was first thought of.

If this were the only source of worry about the PSBR, it could be briskly dealt with by finding an alternative budgetary concept that took changing levels of asset sales into account. The MTFS could then be restated in terms of the new target variable: the general government financial deficit (GGFD) - recommended by the Treasury.

With 95 per cent of the rise in sterling M3 last year thus accounted for by personal lending, the PSBR's influence on money-creation had become almost peripheral. And to judge by the projections in the London Business School's new Financial Outlook, based on new



model of UK financial flows, it is likely to remain so.

That the authorities are painfully aware of this structural shift is clear enough from their technique of overfunding - selling more debt instruments than are needed to finance the PSBR, however defined - which they have resorted to in the past two years.

### Demonetisation

Looked at as an attempt to reshape the yield curve, overfunding seems a perverse exercise in borrowing at unnecessarily high rates in the gilt-edged market in order to hold down short money rates for the benefit of the private borrower - all this when the declared financial policy is to encourage a structure of yields which makes it attractive for private sector companies to borrow long, preferably by the non-monetary method of bond issues.

From another perspective, perhaps that of devil's advocacy, overfunding has been a rational and helpful move, permitting various participants in the financial market to acquire their desired portfolios, while ensuring that a proportion of private sector debt was funded mainly by demonstrating building society deposits. The Bank of England thus eased a mismatch between the supply of long-term bank finance at prevailing interest rates: if it has thereby accumulated a stack of £7bn or £8bn of commercial bills - loans to the private sector financed in effect by gilt sales - that is only one perverse consequence of long-term and large-scale manipulation in the money market.

Logical oddity, has seldom ruled out monetary policies in the past. However, this one now seems to be nearing its natural limits. The Bank is running out of commercial bills to buy, while there is no longer much in the way of public sector bank borrowing left to demonstrate. To carry on with overfunding thus risks having to deposit gilt-proceeds directly with the banking system, and whatever else might be implied, the discount market's existence thereafter would appear largely a concession to sentiment.

With massaging techniques reaching the end of the road, the authorities may soon need to tackle growth in the money supply at its source - borrowing by the personal sector. That may mean, at last, that the Chancellor will have to tackle the personal sector's favourite tax-break - cheaper mortgage finance.

## PETERS STORES PLC

Group Results for the Year Ended 25th June, 1983

	1983	1982
Group Turnover	£600	£600
	10,305	10,622
Profit before interest	701	426
Interest payable	455	327
Profit on ordinary activities before taxation	246	99
Taxation	24	23
Profit on ordinary activities after taxation	222	76
Extraordinary item - Closure costs	61	-
Profit available for appropriation	161	76
Dividends - After waivers	37	16
Profit retained	124	60
Earnings per share	6.9p	2.4p
Net assets per share	£2.34	£2.35

The Group has made a profit before tax and extraordinary item of £246,000. This can be compared with £99,000 for the previous year. The extraordinary item refers to the closure costs of our departmental store in Whitley Bay to which I refer later.

### TRADING

It is pleasing to note the continuing recovery in our traditional area of activities. We made a trading profit of £548,000 as compared with a loss of £152,000 the previous year. All sections of the retail division were performing better as a result of the general improvement in the level of consumer spending and the change of emphasis in our stores, and in particular our Kean Jeans shops.

### PROPERTY

The surplus on property sales was lower at £15,000 compared with £373,000 for the previous year. Rental income grew from £271,000 in 1982 to £270,000 this year, an increase of 26%, and will continue to grow during this current year. This reflects our present policy of retaining our prime investment properties for income and future growth. Although we had hoped to commence our Gateshead Industrial Estate during the current year, prolonged negotiations prevented this. We now intend to commence this scheme in the New Year.

The redevelopment of the Ryles departmental store in Whitley Bay is now complete and lettings are well advanced. When fully let, we anticipate rental income of around £50,000 per annum. We are continuing to look for further opportunities in the field of property development.

### DIVIDENDS

The Directors propose a final dividend of 1.0p per share (1982 - 0.5p) which with the interim dividend already paid of 1.0p (1982 - Nil) makes a total for the year of 2.0p (1982 - 0.5p). If approved at the Annual General Meeting on the 15th December 1983, the dividend will be paid on the 20th January 1984 to shareholders on the register at the close of business on the 18th December 1983. Certain of the Directors have indicated their intention to waive their rights to dividends on a total of 1,352,632 shares.

Copies of the Report and Accounts are available from the Secretary, Peters Stores PLC, Julius House, Northam Road, North Shields, Tyne & Wear NE29 7UX.

## World Weather

Area	C	F	Area	C	F	Area	C	F	Area	C	F
Amsterdam	13	55	London	10	50	Madrid	11	52	Paris	12	54
Antwerp	12	54	Manchester	9	48	Munich	10	50	Rome	13	55
Athens	15	59	Milan	11	52	Seville	12	54	Stockholm	8	46
Birmingham	11	52	Norwich	10	50	Stuttgart	11	52	Switzerland	10	50
Bombay	25	77	Oxford	10	50	Toronto	11	52	Vienna	12	54
Buenos Aires	11	52	Perth	10	50	Washington	11	52	Zurich	11	52
Calcutta	25	77	Portsmouth	10	50						
Cairo	25	77	Sheffield	10	50						
Canton	25	77	Sunderland	10	50						
Cebu	25	77	Swansea	10	50						
Colon	25	77	Toronto	11	52						
Hankow	25	77	Winnipeg	11	52						
Hong Kong	25	77									
Kobe	25	77									
London	10	50									
Los Angeles	10	50									
Lyons	10	50									
Manila	25	77									
Medan	25	77									
Osaka	25	77									

## Unions act to halt steel plan

Continued from Page 1

plex, accounting for 28 per cent of group sales.

Luxembourg also wants guarantees about the future provision of steel product supplies from Cockerill-Sambre.

The political difficulties which emerged in Friday's talks have been further complicated by the fact that Mr Jean Col, the Belgian Deputy Prime Minister, is said to be arguing the case against Cockerill-Sambre co-operation agreement with Arbed.

As a Liege politician, he is believed to want Valfré preserved

Readings of mid-day yesterday:  
 C-Clearly D-Driest F-Fair G-Guy H-Hail I-I Rain  
 S-Sun St-Storm T-Thunder

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## SECTION II - COMPANIES AND MARKETS

# FINANCIAL TIMES

Monday November 21 1983

When that package  
 must get there...  
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### CREDITS

## Banks cheer return of France, Belgium

BY PETER MONTAGNON, EUROMARKETS CORRESPONDENT, IN LONDON

FRANCE and Belgium have not necessarily been the favourites of the eurocredit market over the past two years as their balance of payments deficits ballooned. Last week, however, the market was preparing to welcome them back with open arms.

Imminent borrowings by both Belgium and France's state financing agency, Credit National, were the subject of intense speculation. And this was not just because both countries have this year improved their credit rating by turning round their external accounts.

More important from the market's point of view is the shortage of top quality borrowers at a time when overall business has dropped to half its level of a year ago. Excluding reschedulings, new syndicated loan signings in the first 10 months of this year plunged to \$85bn from \$130bn in the same period of 1982 according to the Euro-money Syndication.

With the year's end approaching many banks have found themselves underfunded. For top-rated borrowers the result has been a market tilted in their favour for the first time since the Latin American debt crisis broke. Evidence of this has come in new patterns of pricing.

● The 1/2 per cent margin which virtually disappeared after the Mexico crisis has become a standard expectation for the best borrowers. Both Credit National, which is thought to be seeking up to \$200m, and Belgium, which is due to launch a \$700m credit within the next two weeks, are expected to benefit from this low margin for a good part of their borrowings.

More striking still is a \$70m, seven-year loan being raised by Merit Udyog, an Indian car manufacturer in which the Government has a 74 per cent stake, and Suzuki of Japan 26 per cent. This loan, which will be led by Bank of Tokyo, will also bear a split 1/2 per cent margin.

● Top rated borrowers no longer need to offer a margin over the U.S. prime rate which is regarded as much more expensive than a conventional eurodollar reference rate. Large U.S. banks are apparently willing to lend selectively over eurodollars again. With U.S. regional banks less of a force in the market, there is little sense in offering them the chance to lend over prime.

Borrowers have also been able to dispense with this expensive alternative because of the ready availability of funds from the bond market. On Friday both Belgium and Ireland launched floating rate notes for \$300m apiece which will reduce their potential need for credits.

Some bankers in London expect Credit National to split its borrowing up into a credit and a floating rate note denominated in sterling.

● Finally, there is also some evidence that banks are willing to countenance longer maturities, usually a sign that the market is shifting in favour of the borrowers. Last week Institut de Credit Officiel, a Spanish state agency, mandated First Chicago to raise a \$40m, nine-year credit extendable at the lender's option to 12. The credit bears interest at 1/2 per cent for the first two years rising to 3/4 per cent thereafter. Repayments begin after a relatively long grace period of six years.

While most international bankers are resigned to the prospect of lower yields on top quality credits, they point out that the phenomenon is confined to the best risks. As a result, a welcome widening of the pricing differential between individual types of borrower has emerged.

Also, it is not clear how far this enthusiasm for lending is shared by smaller banks which offer loans at a junior participant level. Throughout this year there has been a tendency for loans to be top heavy with lead managers and still relatively slow to sell in syndication.

### INTERNATIONAL BONDS

## Fixed-rate borrowers ignore dearth of buyers

BY MARY ANN SIEGHART IN LONDON

BORROWERS took no notice of Eurobond market conditions last week. The general view is that you do not tap a market that is unresponsive, but last week saw a flood of fixed-rate issues - \$700m in all - when the new issue window should have been firmly shut.

Of the recent issues, the European Investment Bank's was standing at a 2 1/2-point discount on Friday and all the others were standing at a discount of about 2. These prices were on the offer side - few people were willing to buy. "The fixed-rate market is effectively closed," said one new issue manager.

By contrast, the dollar floating rate note market managed to absorb \$500m worth of new bonds with very little fuss. Both Belgium and Ireland announced their long-awaited \$300m deals on Friday. Belgium's traded at a 0.50 point discount and Ireland's - generally con-

sidered rather tight at a discount outside its total fees of 1.45 per cent.

Belgium's issue might have fared even better had the Belgian Ministry of Finance allowed the bonds to be listed and issued in bearer form. As it is, most private investors have been put off by these restrictions and also by the large denominations of the notes - each is worth \$250,000.

This is just what the Belgians intended. They specifically wanted to avoid their own residents - the apocryphal "Belgian dentists" - buying the paper and receiving the income tax-free.

Unfortunately, the lack of listing has also deterred some institutional investors. Japanese banks, recently large buyers of floaters, usually fund their FRN purchases with short-term borrowing in the money markets, usually on a three-month roll-over basis.

But if they want to buy non-listed notes, they have to do at least part of their funding in the medium-term floating rate certificate of deposit market, which is more expensive. So the effective spread on the Belgian floater is narrowed for them.

BSP Bank bond average			
Nov 18	High	Low	Previous
98.728	98.728	98.728	98.728
102.019	102.019	102.019	102.019

The same sort of problem looks set to bedevil the recently-reopened sterling FRN market. So far, pricing seems to have been worked out on a similar basis to dollar FRNs. But the recent slip in prices of sterling floaters may be a factor of the differences between the two markets.

The problem arises when banks try to fund the purchase of these bonds. Most U.S. banks can raise short-term dollars at a cost of more than 50 basis points below Libor, for example through borrowing in the commercial paper market.

In sterling, by contrast, investing banks have two problems. Their cost of funds is rarely below Libor, unless they are a clearing bank with free customer deposits. On top of that, the borrowing needed to buy the FRN adds to their liabilities and therefore to the liquidity ratio which they have to keep up to appease the Bank of England. This means that the break-even yield on the sterling floater is higher.

ENEL, the Italian electric utility, not only ignored this point last week when it launched a £100m floater on very tight terms. It also failed to appreciate the fact that the sterling market is still keenly dis-

criminate between individual credit risks. Although ENEL ranks as one of the best Italian credits, its rating is not as high as some other successful issuers of sterling floaters. The bond paid only 1/4 point over 3-month mean Libor, and on Friday it was languishing at a two-point discount.

Part of the problem, apparently, is that ENEL was besieged by cheaper offers from other banks after it was rumoured that S.G. Warburg had the mandate. It is understood that pressure was therefore put on Warburg to tighten its terms.

One of the healthiest markets last week was in EuroCanadian dollar bonds. Secondary market prices rose by up to 1/4 point and British Columbia's issue was increased from C\$100m to C\$125m, making it the largest ever deal in the market.

Yields on seven-year EuroCanadian bonds have all but caught up

with those on Eurodollar bonds for the first time this year. Investors seem to think rates will fall further, and Canadian institutions are attracted by the spread of Euroissues over domestic ones.

The strength of the Tokyo stock market has allowed coupons on Japanese convertibles in the Swiss franc bond market to move even lower. Last week saw Toshiba's coupon reduced from an indicated 2 1/2 per cent to 2 1/4 per cent. And NTN Toyo Bearing's bond was finally priced at 2 1/2 per cent having been indicated at 3 1/4 per cent.

The U.S. dollar secondary market saw very thin turnover all last week with prices falling by about 1/4 point. In continental Europe prices changed little in low volume.

● John Keogh, for many years the chief Eurobond trader at the London branch of Goldman Sachs, is to leave the firm.

### CURRENT INTERNATIONAL BOND ISSUES

Borrowers	Amount m.	Maturity	Av. life years	Coupon %	Price	Lead Manager	Offer yield %	Borrowers	Amount m.	Maturity	Av. life years	Coupon %	Price	Lead Manager	Offer yield %
U.S. DOLLARS								SWISS FRANCES							
ITT 1 1/2 %	125	1988	5	11 1/2	100	Lazard Freres, Lehman Bros.	11.588	Axa Co. 1 1/2 %	30	1988	5	3 1/2	100	UBS	3.887
Continental Finance 5 1/2 %	30	1991	8	4 1/2	100	Mgt. Guaranty	4.500	Farmfield Plc. 5 1/2 %	10	1991	10	5 1/2	100	Bapt. Eurobank Kurz Bogenm.	5.586
Fisons 5 1/2 %	80	1988	15	3 3/4	100	Midco Secs.	2.750	Shore Electric 5 1/2 %	50	1989	10	3	100	SBC, Swiss (Swiss)	3.886
Computer Products 5 %	20	1988	15	7	100	Shannon/AmEx, Robinson		Toshiba Corp. 5 1/2 %	100	1989	10	2 1/4	100	CS, SBC, UBS, Monrovia	2.750
IC Industries 1 1/2 %	75	1988	15	11 1/2	100	Ramsey/AmEx		NTM Toyo Bearing 5 1/2 %	100	1989	10	2 1/4	100	SBC	2.875
ENR 1 1/2 %	200	1990	7	11 1/2	100	Orion Royal, Deutsche, Merrill Lynch	11.875	Hypocor Capital 1 1/2 %	50	1988	10	3	100	SBC	
Citibank 1 1/2 %	100	1988	5	11 1/2	100	HSB Secs., Commerzbank	11.500	Singapore Co. 1 1/2 %	30	1988	10	3 1/2	100	CS	5.250
Tokai Moku Bank 1 1/2 %	100	1990	7	12	100	Nikkei Secs.	11.500	Korany 1 1/2 %	30	1988	10	4 1/4	100	CS	
West LB 1 1/2 %	100	1988	7	11 1/2	100	Dobson Europe	11.500	Mitsubishi 1 1/2 %	100	1989	10	3	100	UBS	
Standard Chartered 1 1/2 %	200	1983	10	1/4	100	S&P, BNP, Mgt. Guaranty	12.000	Sweden	100	1993	10	6		Handelsbank	
Banque Paribas 1 1/2 %	100	1983	10	12 1/4	100	West LB, Merrill Lynch	11.875	STERLING							
Belgium 1 1/2 %	300	1993	25	1/4	100	Schroder Wagg, Standard Chartered	12.250	ENEL 1 1/2 %	100	1993	10	1/4	100	SG Warburg	
Ireland 1 1/2 %	300	1993	10	3 1/4	100	Mgt. Guaranty		AUSTRALIAN DOLLARS							
Sony 1 1/2 %	50	1990	7	3 1/4	100	CSFB, Mgt. Guaranty, Mgt. Stanley, BNP, Paribas, Kreditbank, Soc. Gen. de Belg.		GI Datas 1 1/2 %	35	1988	5	13 1/4	100	Orion Royal, Goldman Sachs	13.625
CANADIAN DOLLARS						Merrill Lynch		EECs							
British Columbia Prov. 1 1/2 %	125	1983	10	12	100	Monrovia Secs.	12.000	EEC 1 1/2 %	50	1993	10	11	100	RBL, BNP, Sparnassen SDS	
D-MARKS								YEM							
Indust 1 1/2 %	100	1991	8	8 1/4	100	West LB	8.250	World Bank 1 1/2 %	200m	1993	10	7 1/4	95 1/4	Yamaichi Secs.	7.843
World Bank 1 1/2 %	300	1983	10	8	95 1/2	Deutsche Bank	8.075	Spain 1 1/2 %	150m	1993	9	7.9	99.3	Daiva Secs.	8.163
FECSA 1 1/2 %	80	1990	7	9	100	BNF Bank	9.000	Finmeccanica 1 1/2 %	50m	1990	6.1	8.4	99.95	Somitosco Yst. & Banking	8.587

\* Not yet priced. † Fixed term. \*\* Placement. † Floating rate notes: coupon is spread over 6-month Libor. † With warrants. (c) Spread over 3-month mean Libor. † Put option every 5 months. † Increased. Note: Yields are calculated on ABB basis.

This announcement appears as a matter of record only.  
 The Notes are offered and sold outside the United States of America.

**U.S. \$75,000,000**

**Farm Credit Corporation**

(An agent of Her Majesty in right of Canada)



**Société du crédit agricole**

(Mandataire de Sa Majesté du chef du Canada)

**11 5/8% Notes due October 28, 1993**

Goldman Sachs International Corp.

Morgan Guaranty Ltd.

Morgan Stanley International

Swiss Bank Corporation International Limited

Commerzbank Aktiengesellschaft

Crédit Lyonnais

Société Générale de Banque S.A.

Union Bank of Switzerland (Securities) Limited

Alm Dhabi Investment Company	Alm Bank of Kuwait (K.S.C.)	Algemene Bank Nederland N.V.	Al-Mal Group	Amro International
Arab Banking Corporation (ABC)	Arab Bank of Egypt	Julius Baer International	Banco del Comercio	Bank of America International
The Bank of Bermuda	Bank of Brunei	Bank of Canada	Bank of China	Bank of Communications
Bankers Trust International	Bank of Cyprus	Bank of India	Bank of Japan	Bank of Korea
Bank of London	Bank of Luxembourg	Bank of Malaya	Bank of Mexico	Bank of New York
Bank of Paris	Bank of Portugal	Bank of Romania	Bank of Russia	Bank of Spain
Bank of Singapore	Bank of Switzerland	Bank of Taiwan	Bank of Thailand	Bank of Tokyo
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## UK COMPANY NEWS

## Full London listing for U.S. computer group

BY DOMINIC LAWSON

U.S. COMPUTER company, Dataserv, is soon to apply to the London Stock Exchange for a full listing for its shares. The company, which is incorporated in Minnesota, has no U.S. quota, and will raise about £7m in an offer for sale by tender in December.

Dataserv is likely to come to the London market with a forecast of pre-tax profits of over £1.4m for the year to December 1983. A market capitalisation of around £24m seems on the cards for the company.

The company, founded in 1970, sells new and used IBM computer equipment and arranges leasing facilities, and maintenance services for IBM systems. Its operations are jointly controlled from Minneapolis in the U.S. and Windsor in England.

Business in the U.S. accounts for over half of turnover, the balance being split roughly between the UK and the rest of Europe. Leasing accounts for about 56 per cent of total turn-

over, while sales of new and used equipment provides a further 32 per cent of the total.

In 1974 Dataserv began a trading relationship with Premier Computers, a UK computer company, which was incorporated in 1971. Nine years later the two companies merged, forming the Dataserv Group which is now seeking a Stock Exchange listing.

The combined group's customers include Barclay's Bank, Citibank, General Accident, The Stock Exchange, Mothercare, AEG Telefunken and the Civil Aviation Authority. These customers helped Dataserv to generate turnover of almost \$80m in the six months to June 1983.

The issues of shares in Dataserv will increase the group's capital base from \$3m to \$10m, and thereby create opportunities for further growth. However, the issues will be seen as controversial in some quarters, because the precedents for U.S. companies seeking a London

listing are few and far between.

Mr Ronald Olson, the American chairman of Dataserv, insisted that his company had been wooed by U.S. investment banks seeking to list the business in the U.S. He said that Dataserv chose London in large part because it was cheaper to go public in this country.

This issue is being handled by Samuel Montagu and the London brokers will be Panmure Gordon. Mr Rupert Faure Walker of Samuel Montagu said that Dataserv was not coming to London rather than New York in order to get a higher rating for its shares.

He said, "I do not believe that there is much difference in the relative ratings of such a company at present." However, he added that "the London market may be more receptive to the small to medium sized company with extensive international operations."

## Gordon and Gotch ahead by £57,000 at halfway

AN INCREASE of £57,000 to £444,000 in pre-tax profits is reported by Gordon and Gotch Holdings for the six months to September 30, 1983. The interim dividend is unchanged at 5p—last year a final of 2.5p was paid from pre-tax profits of £1.15m. Turnover of this export publishing, financial and computer services group, was down from £19.7m to £17.95m.

The directors say the computer group has continued to make good progress in the design and installation of in-house systems for stockholders. It has also secured software contracts from a number of major customers in other sectors.

In Canada, the computer engineering programme was completed, and the company continued to make good progress as the premier distributor of Unipac publishing magazines and newspapers.

They say the second half is expected to produce a similar level of profitability, and early indications are that this will be achieved.

The company's traditional business in the export of magazines and books was assisted by better controlled direct operating costs arising from the rationalisation, which is now very largely complete.

Mercury Airfreight traded strongly, improving its market share, assisted by a welcome sign of a more buoyant industry generally.

Hacheffe Gotch had an excellent half year's trading, but its vulnerability to the lack of convertible currency in Third World countries required a much greater than normal doubtful debt provision.

For the first six months of 1983, earnings are given as £230,000 (pre-tax), £200,000 (after tax), £195,000 (after tax and interest), £185,000 (after tax and interest and depreciation), £175,000 (after tax and interest and depreciation and minority interest).

After tax £185,000 (£143,000) the net profit was £231,000 (£185,000), office furniture £3,000 (£2,400), electrical appliances £245,000 (£205,000).

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## APPOINTMENTS

## New chairman for Liberty

LIBERTY, retailer, is making the following changes from August 1: Mr D. E. Pike, on reaching the age of 60, will retire from the chairmanship, but will remain a director. Mr R. Weblin will succeed him as chairman and Mr R. Walker will become deputy chairman.

Mr Christopher Rodrigues has been appointed divisional vice-president, marketing and sales, Europe, Middle East and Africa for AMERICAN EXPRESS EUROPE. Based in London, he is responsible for marketing and sales of the American Express Card, Travellers Cheque and Travel businesses within this region. He was previously president, American Express Service Corp in New York.

Mr Peter Bennett has been appointed an executive director of BARCLAYS MERCHANT BANK from December 1. He was previously with Grindlays Bank as general manager, group management services.

TADDALE INVESTMENTS has appointed Sir Monty Flannigan as non-executive chairman. Sir Joseph Dwek has been appointed a non-executive director of Taddale. He is chairman of Bodytree International.

Mr Doug Salmon has been appointed regional director of OFFICE CLEANING SERVICES. He was regional manager.

Mr W. T. Coleman will be joining JAMES CAPEL & CO., stockbrokers, on November 24.

Mr David Swain has been appointed vice-president, sales and marketing of AVX in Europe. Mr Swain has held senior positions with Ultra, Union Carbide and AVX.

Mr Geoff Cox has been appointed finance director of SOFTWARE SCIENCES. Mr Cox joined Software Sciences in 1980 and, as group chief accountant, was responsible for the financial accounting functions.

Mr Stephen Brabbins has joined the board of Bradford-based business computer specialist, RCT CO LIMITED, SERVICES. He joins from the Leeds office of IBM.

Mr Robert Russell, formerly managing director of Haworth Retail, has been appointed managing director of ROLDAN retail division. He is to be based in London.

Mr Andrew Garner has joined BOYDEN INTERNATIONAL in London as an associate. Previously he was managing director of a subsidiary of Gallaher.

CPC INSTRUMENTATION, Birmingham, formerly the electronics and instruments division of Bell & Howell, has appointed Dr Peter McGeehin as director of engineering. Prior to joining CPC Instrumentation Dr McGeehin spent three years managing contract research projects in the fields of composite materials and engineering of solid state sensors at United Kingdom Atomic Energy Authority's Harwell laboratory.

Part of a £100,000 contract for pumps to refurbish soap works in Africa has been placed by Unilever with SIBIRYALAND PUMPS, of Lutterworth, Leicestershire. Used to pump liquid soap around the works from one process to another, the pumps are MYRAS cast iron heavy duty pumps with external lather bearing arrangement.

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## RECENT ISSUES

## EQUITIES

Issue price	Amount paid up	Latest number of shares	1983	Stock	Dividend	Yield	Dividend cover	P/E ratio	
1983	1983	1983	1983	1983	1983	1983	1983	1983	
110	F.P.	710	85p	20p	A. & M. Hires 10p...	24	50.1	11.1	0.6
110	F.P.	221	19p	10p	Accorn Computer 1e 180...	2	28.6	1.7	2.5
115	F.P.	1319	17p	10p	Asenall Hodge 10p...	172	20.2	5.9	6.5
120	F.P.	100	25p	10p	Brit. Petroleum...	188	2	1.5	1.5
200	F.P.	250	12p	10p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
105	F.P.	3870	10p	10p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
160	F.P.	3870	10p	10p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
175	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
180	F.P.	3011	10p	10p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
181	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
184	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
185	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
186	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
187	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
188	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
189	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
190	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
191	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
192	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
193	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5
194	F.P.	1618	27	7p	Briton Oil & Gas 20p 165...	165	1	0.4	1.5



## NEW YORK STOCK EXCHANGE COMPOSITE CLOSING PRICES

**Continued on Page 25**

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**Continued on Page 26**

## Continued from Page 24

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# GULF OIL CORPORATION WANTS ITS SHAREHOLDERS TO KNOW:

**That by voting FOR your Company's proposed Reorganization you are making sure that the holders of a majority of Gulf's shares voting at a meeting will elect ALL the members of your Company's Board of Directors.**

We believe that the planned Reorganization is important for your Company's future and to our goal of maximizing value for our shareholders.

A group headed by T. Boone Pickens is opposed to the Reorganization, and is using the Special Meeting of December 2 as an indirect way to gain support for its plan to create a royalty trust which, in our opinion, would be disadvantageous to Gulf and its shareholders.

**We want you to know why.**

## **Our individual shareholders would be penalized.**

According to a document that the Pickens group has prepared and is distributing to select holders of Gulf stock, but apparently not to individual shareholders, Pickens acknowledges that the **distribution of a royalty trust interest by Gulf would have tax consequences for Gulf's shareholders who are individuals.**

A royalty trust unit, when distributed to the individual shareholders of Gulf, would be subject to income tax up to the maximum rate of 50%. Most importantly, **the shareholder would receive no cash to pay this tax.**

**Our institutional and corporate shareholders, we believe, also should be opposed to a royalty trust.**

Distributions of royalty trusts, in our opinion, have done little if anything to enhance shareholder wealth over the long term. For a large, integrated oil company, creating a royalty trust is like sailing in uncharted waters.

**Stripping Gulf of its oil and gas properties** would reduce its asset base and earnings potential. In addition, by channeling the profits from our properties directly to trust units, we would eliminate forever cash flow to reinvest in our business. This could impede Gulf's ability to compete against other major integrated oil companies and **could result in a reduced overall value of Gulf.**

**WE BELIEVE THAT THE BEST WAY TO PROTECT YOUR INVESTMENT IN GULF AND MAXIMIZE YOUR FUTURE RETURNS IS TO SUPPORT YOUR BOARD'S RECOMMENDATION. VOTE FOR THE REORGANIZATION PROPOSAL BY SIGNING AND DATING THE WHITE PROXY CARD TODAY.**

If you have previously signed a Blue opposition proxy, you have every right to change your mind. **Remember the latest dated proxy is the one that counts.**

**If your shares are registered in "street-name" with your brokerage firm or bank, only they may vote your shares, and only upon receipt of your specific instructions. To ensure that your shares will be voted, at your earliest convenience please instruct the party responsible for your account to execute a WHITE proxy on your behalf.**

**If you have any questions or need assistance in voting your shares, you are encouraged to call Georgeson & Co. Inc. at (212) 440-9800 in New York, or in London, England at 636-2361, or D. F. King & Co., Inc. at (212) 269-5550 in New York, (312) 236-5881 in Chicago, or (415) 788-1119 in San Francisco. Please call collect. Gulf has also established the following toll-free numbers: 1-800-255-4853, and for Pennsylvania residents only 1-800-222-2152. If you cannot get through on the toll-free lines, we encourage you to call collect on the Georgeson & Co. Inc. and D. F. King & Co., Inc. telephone numbers.**

Note: Gulf has engaged Merrill Lynch Capital Markets of Merrill Lynch, Pierce, Fenner & Smith Incorporated to act as special financial advisor to Gulf, including assistance in the solicitation of proxies. Gulf has agreed to pay Merrill Lynch an initial fee of \$50,000 and an additional fee of \$150,000 per month. Merrill Lynch will be reimbursed for its out-of-pocket expenses and will be indemnified against certain liabilities, including liabilities arising under the federal securities laws.



**T. Boone Pickens, Jr.**  
**GULF INVESTORS GROUP**  
 116 John Street, 26th Floor  
 New York, New York 10038

# AN IMPORTANT MESSAGE TO ALL SHAREHOLDERS OF GULF OIL

The Board of Directors of Gulf Oil Corporation has suddenly called a special meeting of shareholders to be held December 2, 1983. They are proposing to reorganize Gulf as a holding company, moving the state of incorporation from Pennsylvania to Delaware.

**While this may seem like a harmless legal technicality, in fact this move would eliminate important shareholder rights.**

## WHAT'S THE RUSH?

For sixty-one years, Gulf has been a Pennsylvania corporation. Now, suddenly, the Board proposes to establish a Delaware holding company in order to "have greater flexibility in such areas as financing and in formulating [Gulf's] acquisition strategies." The Board of Gulf admits in its proxy material that it has **no current plans** to utilize this so-called "greater flexibility." Yet it has called a special shareholders meeting rather than waiting for the annual meeting, which is only a few months away.

## UNDER THE BOARD'S PROPOSAL, WE BELIEVE YOU LOSE

**You lose** • Gulf shareholders will lose the ability to require Gulf to submit proposed charter amendments to a shareholder vote. Currently, holders of 10% of the shares can require the submission of such shareholder proposals to a vote.

**You lose** • Gulf shareholders will lose the ability to call a special shareholders meeting. Currently, the holders of 20% of the shares can call a special meeting.

**You lose** • Gulf shareholders will lose their right of cumulative voting in the election of Gulf directors. Cumulative voting affords a substantial shareholder the power to elect a board member who would then be able to communicate with Gulf management and other directors at the Board of Directors level. Such board representation would help assure a full review of strategies which might not otherwise be considered.

**You lose** • If you are a Canadian shareholder of Gulf, you will be forced to treat the reincorporation as a **taxable event** for Canadian tax purposes—**just as if you had sold your shares.**

## REINCORPORATION: WHO BENEFITS?

In our opinion it is the responsibility of the management of a public company to increase shareholder values. **Ask yourself whether the reincorporation proposal, with its elimination of shareholder rights, will further that objective.** Ask yourself whether the elimination of cumulative voting (the elimination of which the Securities and Exchange Commission Division of Corporation Finance has identified as an "anti-takeover measure") will be in your financial interest. **The Reincorporation Proposal may be good for Gulf management. But is it good for you?**

**Members of the Gulf Investors Group have invested nearly \$800 million in Gulf stock and own 17.9 million Gulf shares, representing 10.8% of the total outstanding.** Our substantial financial commitment creates a common bond with all Gulf shareholders who seek to enhance the value of their investments in Gulf.

**We believe the reincorporation proposal is a defensive reaction to the emergence of an independent shareholder group.** Gulf's defensive posture was summed up by one of Gulf's "Wall Street strategists" as follows: "Let's just say for the moment that we're strapping on our six shooters." (October 20, 1983, *The Wall Street Journal*)\*

If you agree with us that the purchase of a major investment in Gulf stock does not justify the hostile reaction of a hastily called special shareholder meeting that will eliminate important shareholder rights, then you must act swiftly to protect your investment.

Thank you.

On behalf of the Gulf Investors Group

*T. Boone Pickens, Jr.*  
 T. Boone Pickens, Jr.

- ➡ Sign, date and return the **BLUE** proxy card. Vote **AGAINST** the reincorporation proposal.
- ➡ Even if you have already returned a previous management proxy, your later dated **BLUE** proxy will be the only one that counts.
- ➡ If your shares are held at a bank or brokerage firm, and you are concerned that your vote may not reach the Gulf Investors Group in time, please call our proxy solicitor:

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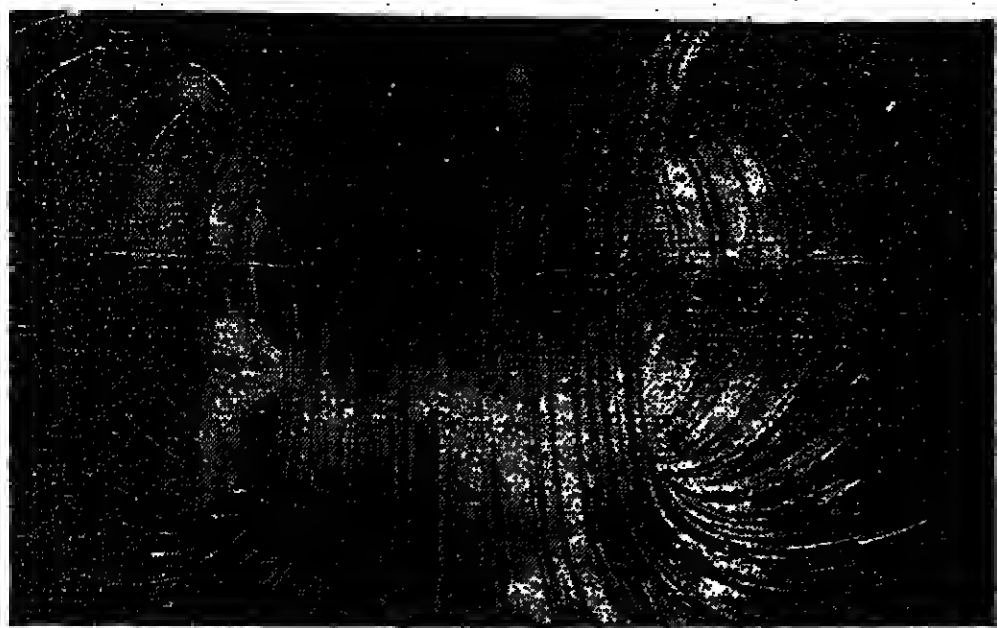
The members of the Gulf Investors Group and their holdings in Gulf are: Mesa Petroleum Co. through its subsidiary Mesa Offshore Co., 11,933,527 shares; Wagner & Brown, 1,621,398 shares; Harbert International, Inc., 1,621,398 shares; Sunshine Mining Company, 1,134,976 shares; First City Properties Inc., 405,350 shares; Far West Financial Services Corp., 405,350 shares; First City Trust Company, 405,350 shares; and First City Financial Corporation Ltd., 405,351 shares.

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## FINANCIAL TIMES REPORT

By DAVID FISHLOCK, SCIENCE EDITOR



● Above: inside the torus, the vacuum vessel at the heart of JET.  
 ● Centre: how JET works: (1) a doughnut-shaped magnetic field is created by current-carrying coils, wrapped round the torus; (2) the plasma tends to drift outwards but the effect can be reduced if the field lines are twisted into helices by adding a second (poloidal) magnetic field; (3) the plasma now tends to expand outwards, but the drift is controlled by a third, vertical magnetic field.

# The JET project

JET, the Joint European Torus, at Culham, just south of Oxford, is Europe's biggest single investment in the search for an alternative to coal and uranium, the fuel of nuclear fission, as its staple sources of electricity.

It is an attempt to reproduce the reactions of the sun and stars.

For a price now put at \$450m to the end of the JET programme (about 1991), Europe's scientists are trying to create conditions of temperature and pressure far beyond engineering experience at present.

These conditions are the secret of the inexhaustible energy of the sun, released by the fusion of small atoms into bigger ones.

JET itself will produce no electricity. As the project director, Dr Hans-Otto Wüster, says: "It will be highly negative on that score."

It is a research apparatus

with its own lines to the electricity grid to tap up to 575 MW, in addition to the 400 MW pulses of power each of its own flywheel generators can provide for its experiments.

It will focus this energy into a ring-shaped reaction vessel, the torus, as a complex interaction of beams and magnetic fields.

If everything remains under perfect control at peak power input, JET may just reach the physical conditions needed for fusion. But it will take the rest of the decade to tune the big apparatus up to this point.

Nevertheless, JET can already claim two great achievements:

● First, the concept has united about 1,000 scientists and engineers engaged in fusion research in 12 European countries into one "team" with a single dominant objective.

● Second, the JET project itself has finished the basic machine in the five years it estimated, for £175m, only about 8 per cent more (excluding inflation) than it estimated, when it received the green light from the European Community's Council of Ministers in May, 1978.

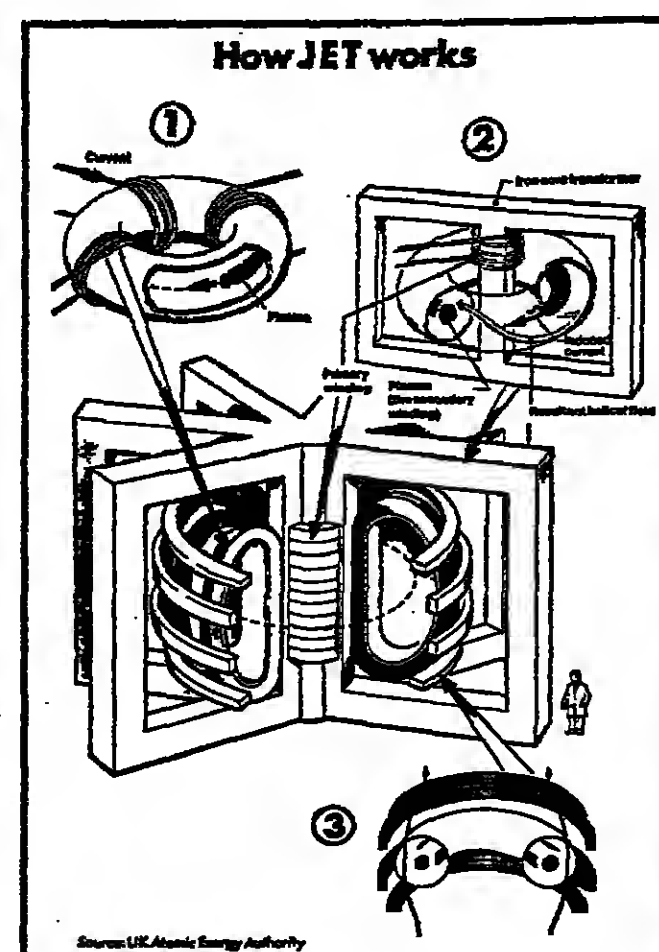
Key figures in these achievements are pictured on this page: Dr Wüster, who managed the project, with Dr Paul Rebut, his deputy, responsible for JET's design, construction, and now operation and further development. Dr Roy Slickerton, associate director of JET, is responsible for the £150m scientific programme.

Dr Sebastian ("Bas") Pease, as Britain's foremost fusion physicist, played a major role in persuading Europe's physicists to unite behind the JET project.

Dr Mick Lomer, as director of the UK Atomic Energy Authority's Culham Laboratory adjoining JET, has provided crucial engineering and scientific support for its neighbour, including many of the best staff.

Mr George O'Hara, associate director responsible for JET administration, has placed contracts worth more than £130m and paid for more than 1,200 man-years of work on the apparatus.

The JET project suffered the birthpains of an almighty political row in the mid-1970s, between completion of Dr Rebut's design and the start of construction. The project was



## JET - the Joint European Torus - is a

scientific experiment on a grand scale. If it

works as well as its designers dream, the

£450m investment could put Europe firmly in

the vanguard of world efforts to harness an

entirely new source of energy, thermonuclear

fusion. It would be almost inexhaustible.

held up for two years while Europe's politicians fought over which nation should be host.

Some of them voiced the case for having it close to a major international centre of fusion research, to provide the support so ambitious an engineering venture would surely need in abundance.

This condition narrowed Europe's choice to two sites, at Garching near Munich, and Culham.

As politicians from some other nations saw it at the time, however, the prestige of being host to JET outweighed merely technical considerations.

But what in the mid-1970s appeared to be a highly destructive dispute, that threatened to kill the project at birth, now seems in retrospect to have had a positive side.

The row alerted a much wider audience for JET, not least in European industry, which competed hard and highly successfully for the

## SIX KEY MEN BEHIND THE JET PROJECT



Above: left to right: Dr Hans-Otto Wüster, of West Germany, director, JET Joint Undertaking; Dr Paul Rebut of France, deputy director and head of operations and development department; and Dr Roy Slickerton, UK associate director for scientific department.



Left to right: Dr Sebastian ("Bas") Pease, UK, the Authority programme director for fusion; Dr Mick Lomer, UK, director, Culham Laboratory; and Mr George O'Hara, UK associate director, administration department.

high-technology subsystems of the machine.

Less than 1 per cent of the contracts were fulfilled outside the 12 member-states. Dr Pease has no doubt that JET was cheaper to build than would otherwise have been the case because industry throughout Europe bid so enthusiastically for contracts.

A big row at the outset does three important things for an international project like the JET project. It receives the attention of participating governments. It ensures that adequate facilities are committed to the project. And it gets the attention of industry.

It can be contrasted with Super-Sara, another ambitious nuclear project which Euratom, the EEC's nuclear agency, tried to launch.

The supporters of Super-Sara never developed the same sense of purpose and commitment as those of JET. It died recently, almost unknown and unremembered.

But Dr Rebut warns wryly that the row must not go too far. For two years he was struggling to hold his international design team together

at Culham with morale sinking fast as the politicians quarrelled, and from this perspective he believes it came uncomfortably close to dying.

For the host nation chosen, such a project has some considerable attractions. There is the prestige of being the centre of a conspicuous international enterprise. There is the business that flows, for the civil engineering side of such a venture invariably is done by the host nation. And there is the advantage it gives in making the case for hosting any follow-on project.

Britain was chosen as host nation to JET partly, at least, because Europe recognised the Culham Laboratory as one of its most powerful fusion physics teams. It has done rather well out of the contracts.

If we set aside the civil construction, British industry secured almost 35 per cent of the contracts for JET's construction, compared with 26.6 per cent by W. Germany, 11.8 per cent by France and 10.8 per cent by Italy. Of the big contracts, worth more than £100,000—including the civil construction contracts—Britain

secured 47 per cent. One year, Britain's share of the contracts even reached 57 per cent.

The total UK Government outlay for fusion, including Britain's payments to JET, add up to about £22m a year.

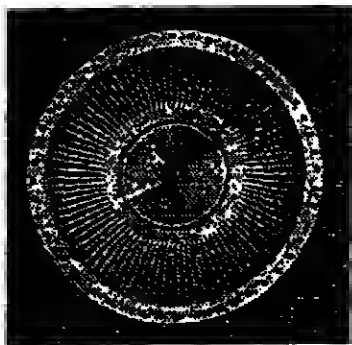
JET came to life for the first time on June 23, six months after its closest rival at Princeton. Both machines are still at the stage of refining their vacuum conditions enough to perform useful physics.

JET was the first to reach 1m amperes of plasma current and sustain it for half a second, although Princeton has since achieved these conditions, too. JET's goal for reporting its first experimental results is a fusion conference in London in September 1984.

As for the goal of commercial power from fusion, Dr Wüster speaks cautiously of "the second quarter of the next century," to bring the technology to the point where it is accepted as economically viable, as the fast breeder type of fission reactor can claim to be today. But the prize will be a way of burning fuel that is almost inexhaustible.



Since the beginning of this century have made a major contribution to the development of industrial applications. The formance vacuum pumps by advent of vacuum technology of vacuum-melted metals and alloys by Dr. W. Rohn an important step toward its industrial use. Our production range today, as a leading international company in the vacuum field, covers more than 140 techniques applied in research and industry. Fusion research is among those branches of research where growing demands are made on inherently complex devices and apparatus. So for instance in the case of the JET-project trouble-free operation of the vacuum pumps is required when the rather hazardous radioactive tritium gas has to be pumped. Furthermore, the pumping system has to be so designed that on one hand very clean high vacuum - as a prerequisite for generating the plasma - is produced and on the other hand after the plasma pulse any remaining plasma components and reaction products are pumped in as short as possible time. Turbomolecular pumps made by LEYBOLD-HERAEUS are particularly suitable for meeting these operating conditions. The TURBOVAC 3500 has been especially designed (and supplied) for handling the tritium atmosphere in the JET fusion reactors. As a further contribution to this project LEYBOLD-HERAEUS have delivered modified vacuum components. This applies also to other fusion projects in USA, Japan and in W. Germany itself. Our know-how accumulated over vacuum" is also made avail employs about 4000 people in Cologne and Hanau. World D.M. Subsidiaries, Technical continents. For detailed in LEYBOLD-HERAEUS GMBH Bonner Str. 504 · POB 510760



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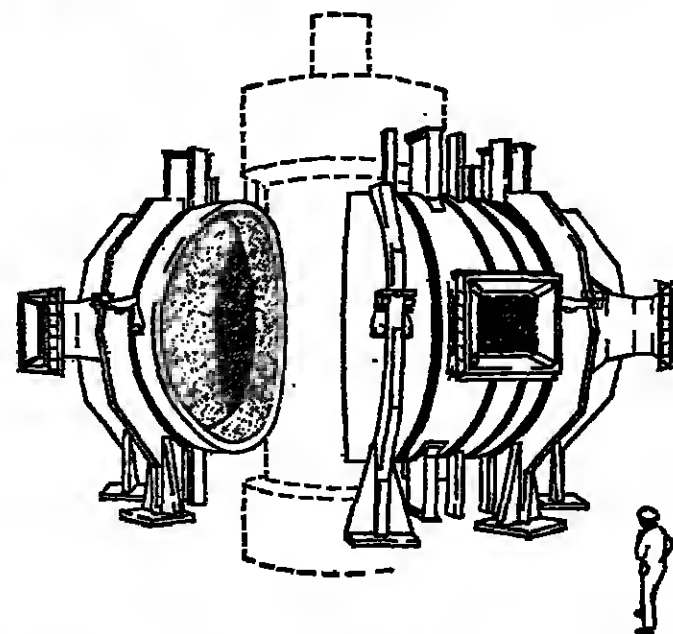
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# JET

JOINT EUROPEAN TORUS

## AND

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Following almost 20 years' association with the Culham Laboratory in Oxfordshire we at Morfax were proud to be chosen as the manufacturers of the vital Vacuum Vessel for this collaborative European Project by the JET Joint Undertaking.

We wish all success to the JET team in the future progression of this experiment.



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## THE JET PROJECT - II

## How the project is managed

A STROLL through the huge white halls of JET, filled with their shiny or bright-painted structures, provides a roll call of the great names of European engineering.

These were the winners in an international competition to get company nameplates attached to one of Europe's most ambitious engineering projects. Industry has responded enthusiastically.

JET was designed and built by Dr Paul Rebut, deputy to Dr Hans-Otto Wuster, project director.

Dr Rebut, a voluble and assertive French physicist, led the international team which assembled at the Culham Laboratory in 1973 to design JET.

He held the team together through the long delays of the mid-1970s while Europe's politicians squabbled over who should host JET. He kept the design advancing, notably in available power to heat the plasma, so that it remains the most powerful experiment of its kind under construction anywhere in the world.

Dr Rebut, as head of the construction department, has assembled JET in the five years allotted at the outset, at what he claims must be a record low price for the proportion spent on project management, about 16 per cent of construction cost.

He says his team of under 200 was really too small for the task, which meant that everything has been done at high pressure, with too few experiments to check the validity of their decisions on the way.

This team, mainly professional engineers and scientists, has been recruited from the associated European fusion laboratories, including the Culham Laboratory. All are on temporary attachment to JET—there is no job security—and many return once their specific task is complete. This year the turnover is more than 10 per cent.

This policy of staff mobility is made clear to all recruits, says Dr Wuster. It was agreed from the start that there would be no group at JET looking into "the next project". In his view, research centres can fall apart scientifically because staff become too involved with the next project and continuity of their jobs.

Dr Wuster has brought to JET his experience of two major European accelerators, DESY in Hamburg, then the Super Proton Synchrotron at CERN in Geneva, where he was deputy to Sir John Adams, project director. But JET built on this experience to develop its own scheme for managing the contracts.

"The first condition of successful procurement is: can the firm do it?"



Assembling an octant, one of the eight "orange-slice" segments that make up the torus of JET.

says Dr Rebut. The procurement policy evolved for JET is as follows: first, Dr Rebut's team defines the specification for a part or sub-assembly in as detailed a form as possible, and costs it. It does not allow for development costs. It compiles a list of companies it considers to be competent to make it. But it also asks each of the 12 member-states whether they want to add companies to JET's list.

JET sets up a technical evaluation group to assess the tenders for a particular item. This group has two tasks: to eliminate all tenders which fail to fulfil JET's specification, and to ensure that the survivors are all on the same footing technically. This group does its work without knowing the prices tendered. Then it picks the lowest tender.

## Further checks

Almost invariably this procedure produces unanimity in the group on who should get it, Dr Rebut says. In effect, it is picking the lowest competent tender.

As further checks, the project director has the final say, and his executive committee then endorses his decision. He estimates that 99 per cent of those picked in this way are approved at the top.

Only one contract—for electronic equipment—has been cancelled because the supplier fell down on the job.

Dr Rebut is emphatic that the tender must not include development—"always a catastrophe." Where JET has doubts about the design, a study contract is awarded first, for example to investigate the mechanical stresses on the toroidal magnets (see article, right).

So, JET paid for study contracts awarded to several potential suppliers, which asked whether the company saw any special problems, and if so what extra cost and time did it think might be needed to resolve them.

What has surprised the project is

just how widely the tender prices are spread. On average they differ by a factor of three between highest and lowest.

"The second-lowest bidder is often the party which complains," Dr Rebut says drily. The project had complaints from firms which had quoted double the price of the tender accepted "yet really believed they had put in a sharp price, another executive adds. No one country had a monopoly of the more preposterous bids.

"Up to now, every shift in fusion physics has shown that the JET design is the most advanced of all," Dr Wuster claims. "It can't be overtaken—we firmly believe that."

Although JET has no "next project," Dr Rebut has four large technical developments to manage. The first is to increase the machine's power steadily throughout the 1980s. This includes the development of the novel technology of radio-frequency heating of plasma far beyond anything demonstrated so far.

The second challenge is that as the succeeds in pumping more power into the plasma, he will need to keep the control systems that manage the hotter plasma advancing. They, too, will need more power if they are to keep control.

The third development is a remote handling system for operating and maintenance of JET once it has been activated by high-energy neutrons, as is planned in the late-1980s. A one-tenth scale model is being used to work out access problems for the servo-manipulators.

The fourth major development for Dr Rebut's team is to prepare for JET's culminating experiments, involving alpha particle heating of the plasma from the injection of 60 milligram shots of tritium.

Although this stage will not turn JET into a nuclear installation, under British law, it will have major ramifications for the JET project.

Twelve European nations have contributed to the JET project

## A fusion of top talent

WHATEVER the final outcome of JET scientifically, the project is already assured of a reputation as another triumph of European technological collaboration.

A dozen nations—the EEC, plus Sweden and Switzerland—pooled their best talent in fusion physics and engineering to pursue a venture none of them doubted lay at the limits of technology when it was designed in the mid-1970s.

They agreed—after some fierce political haggling—to locate JET at Culham, alongside one of Europe's main centres of fusion physics.

The proximity of such a resource was essential, it was argued, to help JET through the difficult technical patches which would surely arise in so advanced a machine. And so it has proved.

The link between the Culham Laboratory and JET was cemented in practical as well as symbolic terms by the grateful use of a covered bridge. Last year Culham provided services to JET costing £5.6m—in addition to its £5.4m contribution to JET on behalf of the UK—out of a total UK fusion energy budget of about £22m.

One thing JET has already demonstrated is that Europe is better at this kind of high-technology project than some people believed, says Dr Mick Lomer, director of the Culham Laboratory. The necessary skills are not American-dominated. About 95 per cent of JET has been made in Europe. There has been no failure so far, of a major component.

Associated with JET, therefore, is a total of about 3,500 people engaged in Europe's fusion research programme, of which about 1,000 are professional staff. Euratom contributes up to 45 per cent of the cost of the bigger experimental devices.

The current five-year programme agreed by the Council of Europe for Euratom allocates £20m units of account (about £350m) to the fusion programme.

For example, in the early 1970s France had the best performing tokamak in the world, at the CEA's laboratories at Fontenay-aux-Roses, near Paris.

Italy, at Frascati, has a high field tokamak which recently held the world record for the

## International collaboration

programme for 1982-85, almost equally divided between JET and the associated laboratories.

Thus, Euratom is expected to provide about 40 per cent of the total outlay on fusion research by Europe during 1982-85, some 1,500m units of account (about £850m).

The European fusion programme, under the direction of Dr Donato Pomauro at Euratom headquarters in Brussels, is devoted almost exclusively to the magnetic confinement approach to controlled thermonuclear reactions.

Euratom regards the Russian-invented tokamak method of confining a plasma inside a ring-shaped magnetic bottle as "at the moment, the most practical means for the production and study of fusion-relevant plasma, and for the development of heating, diagnostic and measuring techniques," says Dr Pomauro.

Most of the associated laboratories are equipped with tokamaks of various sizes.

For example, in the early 1970s France had the best performing tokamak in the world, at the CEAs laboratories at Fontenay-aux-Roses, near Paris.

Italy, at Frascati, has a high field tokamak which recently held the world record for the

combination of plasma density and confinement time. West Germany, at Garching, has produced the first experimental evidence that it may be possible to get hotter plasmas without a fall-off in confinement time.

France, at its new fusion laboratories at Cadarache, has begun to build a tokamak equipped with superconducting coils. Frascati and Garching are also planning new tokamaks. Euratom is also studying the idea of a very high field tokamak called IGNITOR.

All of these tokamak experiments have one common objective: namely to provide data for the design and construction of NET, the next European Tokamak. NET is currently envisaged as the intermediate step between JET and the first demonstration fusion reactor (although some fusion physicists believe that two steps will be necessary).

A scientific panel, headed by Professor Kurt Beckurts, Siemens director of research, has set out a programme strategy for NET, recently adopted by Euratom.

## Three tasks

The small NET project team at Garching, now headed by Italy's Professor R. Tosi (who has stepped down after four years as chairman of JET's executive committee), has been given three tasks:

1. To produce, by the end of 1984, a conceptual design for NET.
2. To contribute to the INTOR concept for an international torus (see the article on future prospects).
3. To provide focus and guidelines for Europe's expanding fusion technology programme, for example in advanced magnet design, in tritium technology, and in the materials problems.

In order to fulfil these tasks, the NET team will grow to 25-30 professional staff. They hope to be ready to firm up NET's main parameters around 1987 although they will need the results from JET and its alpha particle heating experiments before NET's design can be completed.

The programme for NET may well be five times as costly as JET, says Dr Lomer at Culham Laboratory.

Its sponsors will want firm evidence that such an experiment will survive the conditions it has been designed to create. That is the basis on which a panel set up last winter by the International Energy Agency has recommended European and Japanese participation in a unique U.S. facility, the Fusion Materials - Irradiation Test (FMIT) laboratory at Hanford in Washington State.

FMIT is a metallurgical laboratory designed round a powerful linear accelerator which will generate neutrons of fusion energy.

These are 14 MeV neutrons, known to be highly destructive to the mechanical properties—strength, ductility, fatigue strength, and so on—of engineering materials.

In particular such neutrons will bombard the first wall of the plasma containment torus of NET.

Europe has no other way of exploring the damage fusion-energy neutrons can do. The alternative is a special-purpose accelerator would be to use a big fusion experiment itself, which by definition would provide information too late.

The IEA panel, headed by Sir Alan Cottrell, recommended that Europe and Japan should participate in FMIT.

Just how they will participate in and help pay for this \$215m project is now being negotiated.

Scientists are now creating one of the most complex machines ever designed

## A giant electrical 'doughnut'

IMAGINE A ring doughnut 2.63 metres in diameter, squatting flat as the single turn of a secondary winding for a huge transformer, so powerful that it can pass millions of amperes of current through such a "coil."

That, in essence, is JET, the Joint European Torus, a giant electrical machine confidently expected by its designers to press closer to the control of nuclear fusion reactions than any other experiment under construction.

So far it has cost about £175m to construct. The secondary coil is, in reality, a ring-shaped vacuum chamber, or torus, within which a ring of plasma will form. Plasma is the chaotic fourth state of matter, an electrically conducting cocktail of atomic debris produced when gases are super-heated.

To get JET started, a little hydrogen gas is squirted into the hard vacuum of the 100-tonne torus. The surrounding transformer can then induce a current of up to 4.5m amperes in the resulting ring of plasma. Over the next few years, JET scientists hope to inject more and more energy into the ring of plasma, by a variety of means, until they attain extreme conditions of the kind found in the sun and stars, where thermonuclear reactions are taking place.

Should plasma at tens of millions of degrees C touch the wall of the torus, it will promptly dissipate all its energy, melting or at least "grazing" the inner wall of the nickel alloy chamber. To prevent the plasma escaping, the torus is enveloped in two separate sets of magnetic coils, toroidal and poloidal, which constantly push and pinch the writhing ring of plasma.

Electronic controls try to follow every twist and turn of the plasma, to keep it centred within its magnetic bottle, well away from the wall.

## Bunker

JET stands in a building constructed by Tarmac, at the centre of the torus hall, an immense concrete bunker with walls 2.5 metres thick, that shields adjoining work areas from radiation from the machine.

A 400-tonne sliding door and 1,000-tonne beam can slide off the machine from the outside world. The great orange limbs of the transformer, built by CEA in France, 12 metres tall and 15 metres in diameter, the frame the torus itself, now festooned with cables, waveguides, plumbing and instruments.

GEC played a major role in JET's construction. In addition to its large-component contracts for magnetic coil power supplies and the carbon dioxide bake-out system on the torus, it was awarded a contract (GEC Energy Systems) to supervise assembly of the machine.

This operation took only 17 months, from January 1982, when the torus hall was handed over by the contractors, until JET produced its first plasma in June this year.

The main power supplies for JET include twin flywheel generator-converter supplying the toroidal and poloidal coils. They are low-speed, vertical-shaft generators designed by GEC Large Machines specifically to provide the high-energy pulses of power JET needs.

The generators are 11 metres in diameter and weigh 1,678

## The big machine

ing system applied to the space between the inner and outer walls of the torus then provided the first stage of "vacuum hygiene," in the quest for a sufficiently pure plasma for experiments.

Brown Boveri (BBC) was responsible for the main magnet systems, 32 toroidal field coils (and four spares) and the larger poloidal field coils.

Final assembly and preparation of all these coils was done in the assembly hall adjoining the torus hall. The six inner poloidal field coils, for example, are stacked to form a vertical cylinder weighing 100 tonnes, and were moved as a single sub-assembly along with associated bus bars and water cooling

circuits to their place in the machine.

The complete ring of D-shaped toroidal field coils, enclosing the torus weighs 384 tonnes and will draw current pulses of up to 66,000 amp from the flywheel generators, dissipating up to 280 MW of heat.

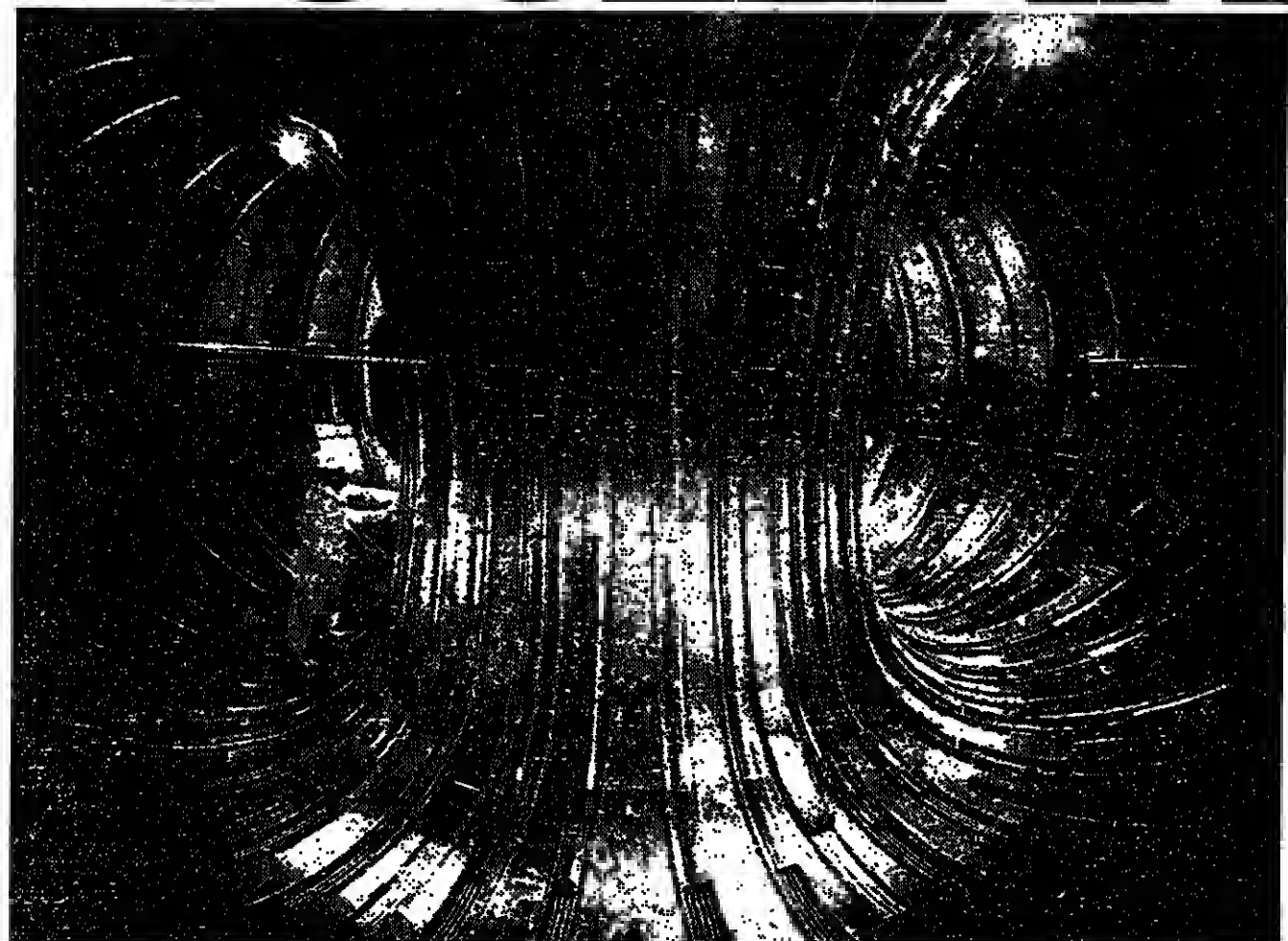
JET's magnetic field exerts an immense magnetic pressure which tends to expand the coils, and produces very large mechanical forces. Each coil is being pressed towards the centre of the machine with a force of 2,000 tonnes.

Only the initial heating of the plasma, up to a few million degrees C, can be done by the magnetic coils. Two more systems of heating, using high-energy beams focused into the torus, are being installed at present.

One is neutral injection heating, in which an intense beam of high-energy neutral atoms-

CONTINUED ON NEXT PAGE

## NUCLEAR



## FUSION

ENERGY FOR THE 21st CENTURY—A NEW FILM FROM THE UNITED KINGDOM ATOMIC ENERGY AUTHORITY

Nuclear Fusion may well provide us with a long-term source of energy in the 21st century. This new film explains the principles of nuclear fusion and how they differ from nuclear fission. Intended for general audiences it shows how Culham Laboratory in Oxfordshire has been the UK centre for research into fusion power for over 20 years. In addition Britain and 11 other European countries are working on JET

—the Joint European Torus. The film explains how, since 1978, Culham has been the centre for this joint European research project on fusion and it traces the development of fusion research that has led to the construction of JET.

JET is an experiment which will never produce electricity but it will come close to the working conditions of a fusion reactor which could generate electricity in the next century.

Produced by Live Action Communications Ltd. The film, running time 25 minutes, is available in 16 mm colour, optical sound, and in various video formats on free loan or sale. It can be obtained from Film Library, Viscom Ltd., Park Hall Road, Trading Estate, London, SE21 8EL.

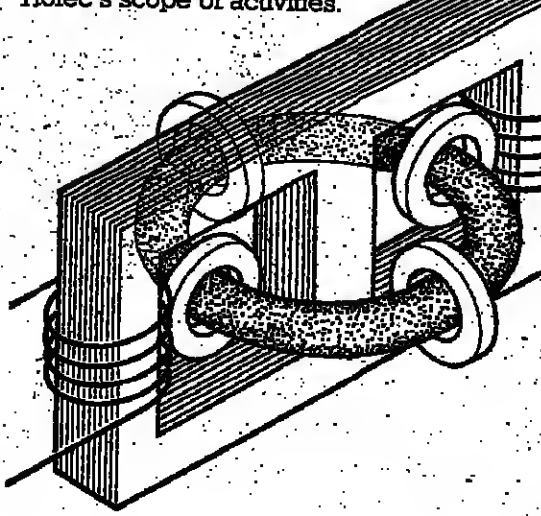
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Tel: 01-761 3035. Acknowledgments to the JET Joint Undertaking.

## What did Holec do in Culham?

On the basis of a turnkey contract, Holec supplied, installed and commissioned the electronic power converters (with computerized control and measuring equipment) that, in relation to their high output ratings, energize with extreme accuracy the electromagnetic system for the confinement and positioning of the plasma for nuclear fusion research in the JET tokamak.

Why Holec? Because of the unique position Holec gained in this sphere through deliveries to international research organizations all over the world, for 25 years now.

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## THE JET PROJECT - III

## Painstaking work ahead

RIGET OUTSIDE the white concrete walls of the torus hall is a large open space which will gradually fill up with instruments over the next few years.

This is the diagnostics area, where the scientists work with the tools that peer into the torus itself, to try to follow the behaviour of the plasma. This will become increasingly interesting as the power of the machine rises over the duration of the programme.

Dr Roy Bickerton, seconded from the UKAEA, is associate director responsible for JET's scientific programme—the experiments in plasma physics to be run on the machine, and the interpretation of the results.

Over the next few years his team of up to 100 scientists and engineers is scheduled to commission no fewer than 25 different diagnostic systems. The clean lines of JET will gradually disappear in the cluster of instruments and support structures surrounding the torus.

JET has a budget of about £150m for a research programme lasting until 1990. During this time Dr Bickerton hopes to see the temperature of the plasma raised in half-a-dozen stages, from around 1m degrees C today to about 100m degrees C by the end of the decade.

Three basic conditions are believed to be necessary for controlled thermonuclear fusion—the sustained release of energy comparable to the core of a fission reactor. These conditions, called the Lawson criteria after the British theoretical physicist John Lawson who first spelled them out, are a sufficiently hot plasma (around 100m degrees C), a sufficiently dense plasma, and a sufficiently durable plasma.

The most obvious problem for the experimental physicist is that the hotter and denser he manages to get his plasma, the more it strives to escape from its magnetic bottle.

Dr Bickerton is still at the stage of "plasma hygiene" on the newly-built machine. As the power input rises, more and more atoms are driven from the inside wall of the torus to contaminate the plasma. He faces another year of painstaking work ahead to get the machine clean enough for serious measurements, while the first diagnostic systems are being assembled.

The diagnostics are mostly being planned and built in the

17 fusion physics laboratories round Europe associated with the EEC fusion research programme. An early arrival is a Danish apparatus for measuring the temperature and density of the plasma by firing pulses of laser light into the torus. It has been designed by the Danish national nuclear research centre at Risø.

The laser points downwards from a roof laboratory above the torus hall, entering the torus through various small windows. Light scattered by the plasma is picked up through larger windows at the side of the

## The research programme

torus, and reflected back to the roof laboratory by a large mirror telescope.

Special alignment systems are needed to keep the laser beam centred on the input windows and the telescope focused on the small volume of plasma from which light is scattered. To ensure the stability of mirrors set six metres above the floor, the telescope sits upon a 20-tonne concrete plinth—an indication of the scale of engineering associated with experiments on JET.

All of the diagnostic systems use beams of light or other radiation to extract data from the plasma, for the evident reason that no other kind of sensor would survive.

The diagnostics are also designed to survive the life-time of the programme. This leads to some pretty robust engineering and support structures reminiscent of offshore engineering, except that they must be non-magnetic and hence made from stainless steel or concrete.

France is providing a very sophisticated multi-channel far infrared interferometer to measure the plasma density, developed at the fusion laboratories of the Commissariat à l'Énergie Atomique at Fontenay-aux-Roses, near Paris. This will use a deuterium cyanide laser as its sensor.

Seven vertical and three lateral arrays of laser light will pierce the plasma to take measurements throughout its volume.

The optics for this complex instrument are being mounted

on a single large C-frame of stainless steel, which has to be mechanically decoupled from JET to minimise vibrations.

Mirrors are needed both inside the vacuum vessel and on the outside of JET, to bend beams round such obstructions as the coils of the machine. The laser itself must stay outside the torus hall, in the diagnostics area, to avoid damage by radiation, necessitating very long optical paths.

JET has more heating power planned and a higher plasma current capability than any other plasma experiment under construction today. Hence, it is believed to have a better chance of reaching the conditions for a sustained fusion reaction.

But at each step-up in power, as a new source of plasma heating is brought into play, the physicists will be wrestling to keep control of the plasma. For the next year, ohmic (resistive) heating alone will be used while JET is being cleaned and the physicists are getting to know its idiosyncrasies.

Next year the power should rise from 2 megawatts to 7 Mw of heating, with use of the first neutral beam injection unit. During 1985, another such unit together with the first 5 Mw of radio-frequency heating will bring the power close to 20 Mw.

By 1987, Dr Bickerton hopes to be doing research with the full power of the present machine, 26 Mw.

Beyond that lies the possibility of heating the plasma still further, perhaps to "ignition," as the physicists call the point at which the three Lawson criteria are met, by alpha-particle heating. This will necessitate the injection of tritium, the radio-active isotope of hydrogen.

Experimentally, this will be a very big step, requiring not only a major investment but immense care to ensure the safe containment of tritium.

Inevitably, it will greatly complicate any further modifications or maintenance on JET, most of which will then have to be done by remote handling or robots.

Before taking this irreversible step, the physicists will have to satisfy JET's scientific council not only that alpha-particle heating is going to produce a significant increase in plasma temperature, but that there is no other experiment they might usefully do—try some other heating system, for example, in the inactive machine. Dr Bickerton says:

"The decision is a very serious one that will be taken in light of the performance of JET and other circumstances at the time," he says.

## WHERE THE CONTRACTS WENT

	Overall		Excluding building contracts	
	ECU†	%	ECU†	%
Britain	96,737,868	49.78	58,656,320	37.47
West Germany	41,659,452	21.01	41,659,452	26.61
France	19,365,503	9.77	18,526,883	11.84
Italy	19,013,365	9.59	16,824,332	10.75
Switzerland	8,698,617	4.39	8,698,617	5.56
Denmark	4,424,643	2.23	4,237,926	2.71
Belgium	3,638,765	1.84	3,638,765	2.32
Netherlands	2,990,460	1.51	2,964,769	1.89
Sweden	541,509	0.27	97,681	0.06
Others	1,225,270	0.62	1,225,270	0.78
	198,295,452	100.01	156,530,215	99.99

† European currency unit.  
Source: JET Joint Undertaking, October, 1982

## Where is the project leading us?

IN STRIVING to harness fusion energy to power production, Europe has focused almost exclusively on the tokamak approach. The main thrust of the fusion programmes of both Japan and the USSR also appears to be the tokamak.

Japan is assembling its JT-60 machine, not quite as powerful as JET, for completion early in 1985. The project is being managed by Japanese industry, with the major electrical groups in charge.

The USSR is building a superconducting tokamak, T-15, smaller than JET and scheduled for completion around the end of 1985. The more ambitious T-20 concept, which went beyond JET, has never materialised as a project.

The U.S. has a more broadly-based fusion programme. The heart of its tokamak effort is a mesa near San Diego, where the Gulf subsidiary GA Technologies is operating Doublet III.

This is a joint venture funded mainly by the U.S. and Japanese governments, which provided its first experimental results in 1979.

At the end of the current five-year joint programme, Doublet III is to be modified extensively to make a machine which Dr Tihoro Ohkawa claims will be "almost as powerful as JET for much less cost."

Dr Ohkawa, GA Technologies' vice-president in charge of fusion and chief fund-raiser, runs a team of nearly 500. Phillips Petroleum is one of his sponsors. He has just re-negotiated his collaboration with Japan for another four years. His budget this year is about \$64m (£35m).

European fusion physicists

## Looking to the future

exchange results freely with the Doublet III programme, held Dr Ohkawa himself in high regard and treat seriously his assertion that his modified machine will reach fusion conditions in 1986-87.

The more highly publicised feature of the U.S. fusion programme, however, is the Tokamak Fusion Test Reactor (TFTR), a \$314m machine which began operating seven months ahead of JET, at the Princeton Plasma Laboratory at Princeton, New Jersey.

But according to European physicists, TFTR is underpowered. Its designers, who launched into construction about six months ahead of JET, failed to aim high enough in provisions for plasma heating, they say.

At Livermore, near San Francisco, the Lawrence Livermore National Laboratory is assembling a machine 215 ft in length, in a different approach to the basic problem of trapping ions in a magnetic bottle for long enough to achieve a sustained fusion reaction.

The \$200m Mirror Fusion Test Facility (MFTF-B) is a linear instead of circular bottle, 35 ft in diameter, corked at each end with a 400-tonne superconducting magnet to prevent plasma leaking.

Its scientists say that this leviathan will not be far from the size of a fusion reactor. They hope to switch on in 1987. All of the foregoing magnetic confinement projects are part of an open international fusion research effort, the experience and data of which is exchanged relatively freely between scientists.

Dr Lawrence Livermore, as a U.S. nuclear weapon design centre, is also part of a closed research effort on a non-magnetic approach to the confinement of plasma, inertial confinement.

The aim here is to achieve the conditions for sustained fusion by focusing high-power beams, for example of laser light, on a capsule of fusion fuel. U.S. laboratories closely associated with the inertial confinement research programme include the Los Alamos and Sandia National Laboratories. This programme is funded by the U.S. Department of Defense.

The U.S. USSR, Japan and Euratom all have teams participating in the INTOR (International Torus) study mounted by the International Atomic Energy Agency in Vienna.

Europe, NET (the Next European Torus study) began as a way of co-ordinating Europe's contribution to the INTOR concept, although its opinion has recently begun to diverge from INTOR in the belief that at least one more experimental apparatus will be needed before a demonstration fusion reactor should be attempted.

As Dr Hans-Otto Wüster, JET's project director, sees the problem, when the physicists

look at the INTOR studies and almost any major fusion reactor component, they see "problems for years ahead."

How, for example, do you make superconducting coils weighing 1,000 tonnes, 24 metres in diameter?

Dr Wüster believes that in light of these problems, the McCormack political initiative towards the end of President Carter's administration, when he called for a crash programme along the lines of the Moon landing, was simply a non-sense. "It made no more sense scientifically than similar politically inspired crash programmes during the 1970s in the U.S. to cure cancer and to harness solar electricity. Both failed abjectly."

Critical issues for INTOR defined by the first phase of the study, published last year, include problems of plasma confinement, impurity control in the plasma, plasma heating, tritium production, magnet engineering and testing, and—most of all—cost.

The Culham Laboratory, in co-operation with other UKAEA laboratories, has carried out a short study for Euratom of one part of the INTOR reactor concept, to investigate the feasibility of concurrently generating electricity and breeding tritium.

## Guesstimates

Dr Wüster, however, says he would be much happier if the twin tasks of burning and breeding fuel were explored in separate machines, which he estimates may cost about 30 per cent more than current "guesstimates" for the INTOR programme.

Dr Wüster says it is also important not to lose sight of the fact that INTOR will be closely approaching the commercial phase of fusion power, which he foresees arriving in the second quarter of the next century. All past experience, not only of nuclear energy, shows that nations begin to diverge sharply at this stage.

Europe has painstakingly taught itself how to work together, how to exploit international collaboration successfully. The U.S. is still at the stage of insisting upon dominating every project of which it is part.

Americans find it incredible that a European country which is paying 25 per cent of the cost of a project may vote against something yet still pays up if the consensus is against it, because it has only one vote in 12 in the fusion programme.

On top of all this comes the U.S. record of inconsistency in its international nuclear policy over the past 10 years.

This inconsistency is making Europe very wary in its negotiations over the Fusion Materials Irradiation Test facility.

It needs to ensure for its scientists both a fair crack at the research programme from the time FMIT is ready, around the end of the 1980s, and also insurance against financial responsibility for a facility they have had no say in designing or building.

Does he believe that continents will eventually come together to finance and build INTOR?

"I would say yes, international collaboration is very desirable, but my private opinion is that it will be a bit slow in coming," says Dr Wüster.

David Fishlock

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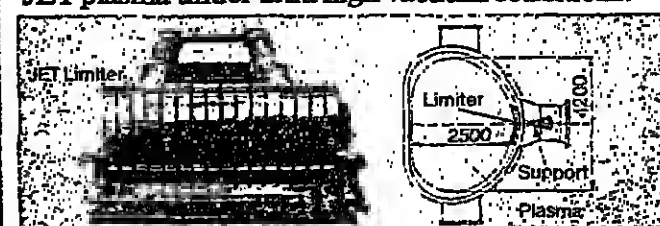
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00000000	0210	Equity	160.8	168.9	-0.2
00000000	---	International	176.1	168.4	+0.4
00000000	---	N America	108.1	111.9	-0.2
00000000	---	N European	103.6	109.3	+0.8
00000000	---	Pacific	106.2	114.9	-0.2
00000000	---	Int Recovery	172.3	119.0	-0.7
00000000	---	Gilt Plus	143.5	151.1	-0.5

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**The Marketing Department  
FT Business Information Limited  
102-108 Clerkenwell Road, London EC1M 5SA  
Tel: 01 522 9931 Ext. 55**

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## CURRENCIES, MONEY and CAPITAL MARKETS

## FOREIGN EXCHANGES

## Dollar threatens a breakthrough

BY COLIN MILLHAM

The dollar broke through its previous record levels against several currencies last week, and threatened the 10-year high against the D-mark touched in August, but there was never quite enough conviction in the foreign exchanges to really attack this untouched ground.

Volume of trading did not appear sufficient to worry the Bundesbank unduly, but the German authorities failed to prevent the dollar breaking through the DM 2.70 level on Friday, where any further advance was expected to meet strong resistance from the central bank.

Intervention by the Bundesbank was never particularly heavy, and when the authorities bought a mere \$250,000 at the Frankfurt fixing on Thursday,

this was obviously a signal of intent rather than a serious attempt to support the D-mark. A rise by the dollar against European currencies at a time when the Japanese Government has agreed to bring about a realistic exchange rate level between the dollar and the yen, means that the yen climbed against the D-mark. The Bank of Japan has also made its presence felt in the market, keeping the yen/dollar rate steady, and thus pushing the yen/D-mark rate to record levels.

No new factors lent support to the dollar, but the present interest rate picture and the war in the Lebanon pushed the U.S. currency to records against the Italian lira, French franc and Belgian franc.

Sterling drifted lower against

the dollar, to finish the week at the lowest level since March, but remained firm against Continental currencies in dull trading. The trade-weighted index hovered around the 84 level for most of the week, only falling to 83.6 at the last calculation on Friday.

The Chancellor of the Exchequer's autumn statement contained few surprises, but may have provided some help for the pound by indicating that London interest rates are likely to remain steady for some time, while underlining the Government's determination to fight inflation.

Continued dollar strength

attracted most attention within the European Monetary System last week. The U.S. unit touched record highs against the French and Belgian francs as well as the Italian lira. It was also at a three-month high against the D-mark and the depressed state of the latter helped to relieve pressure on the weaker members of the system. The Belgian franc was again at the bottom of the EMS but managed to hold steady with the help of further central bank intervention. Trading was a little subdued with some financial centres closed for public holidays.

## FORWARD RATES AGAINST STERLING

	Spot	1 month	3 months	6 months	12 months
Dollar	1.4700	1.4700	1.4727	1.4788	1.4815
D-Mark	1.2700	1.2700	1.2700	1.2700	1.2700
French Franc	12.0525	12.0525	12.0525	12.0525	12.0525
Swiss Franc	1.2175	1.2175	1.2175	1.2175	1.2175
Japanese Yen	347.25	347.25	347.25	347.25	347.25

## BANK OF ENGLAND TREASURY BILL TENDER

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
Bills on offer	£100m	£100m	Top accepted	8.8543%
Applications	£265.81m	£265.81m	Average	8.8543%
Total allocated	£100m	£100m	Rate of discount	8.8543%
Minimum accepted bid	£97.79	£97.79	Average yield	8.8543%
Allotment at	61%	25%	Amount on offer	£100m
Minimum level	61%	25%	at next tender	£100m

## THE DOLLAR SPOT AND FORWARD

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
U.S.	1.4695-1.4695	1.4695-1.4695	0.04-0.05c	0.04-0.05c
UK	1.1810-1.1810	1.1810-1.1810	0.24-0.25c	0.24-0.25c
Netherlands	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Belgium	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
France	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Germany	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Italy	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Spain	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Sweden	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Switzerland	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Japan	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Australia	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
New Zealand	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
South Africa	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
U.A.E.	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c

## EMS EUROPEAN CURRENCY UNIT RATES

	ECU	Currency	% change	% change	Divergence
	Nov. 18	Nov. 18	Nov. 18	Nov. 18	Nov. 18
Belgium Franc	44.3008	46.0777	+2.48	+1.75	-1.5447
French Franc	1.2700	1.2700	0.00	0.00	0.0000
German Mark	1.2700	1.2700	0.00	0.00	0.0000
Italian Lira	1.2700	1.2700	0.00	0.00	0.0000
Netherlands Guilder	1.2700	1.2700	0.00	0.00	0.0000
Portugal Escudo	1.2700	1.2700	0.00	0.00	0.0000
Spain Peseta	1.2700	1.2700	0.00	0.00	0.0000
Sweden Krona	1.2700	1.2700	0.00	0.00	0.0000
Switzerland Franc	1.2700	1.2700	0.00	0.00	0.0000
U.K. Pound	1.2700	1.2700	0.00	0.00	0.0000

## OTHER CURRENCIES

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
Argentina Peso	25.10-30.17	17.707-17.797	Australia Dollar	0.70-0.80
Brazil Cruzeiro	1.2700	1.2700	Canada Dollar	0.70-0.80
Colombia Peso	1.2700	1.2700	Denmark Krone	0.70-0.80
Finland Markka	1.2700	1.2700	France Franc	0.70-0.80
Greek Drachma	1.2700	1.2700	Germany Mark	0.70-0.80
Hong Kong Dollar	1.2700	1.2700	Italy Lira	0.70-0.80
Indian Rupee	1.2700	1.2700	Japan Yen	0.70-0.80
Israeli Sheqel	1.2700	1.2700	Netherlands Guilder	0.70-0.80
Kuwait Dinar	1.2700	1.2700	Norway Krone	0.70-0.80
Laos Kip	1.2700	1.2700	Portugal Escudo	0.70-0.80
Lebanon Lira	1.2700	1.2700	Spain Peseta	0.70-0.80
Malaysia Ringgit	1.2700	1.2700	Sweden Krona	0.70-0.80
Mexico Peso	1.2700	1.2700	Switzerland Franc	0.70-0.80
Morocco Dirham	1.2700	1.2700	U.K. Pound	0.70-0.80
New Zealand Dollar	1.2700	1.2700	U.S. Dollar	0.70-0.80
Oman Rial	1.2700	1.2700	Yugoslavia Dinar	0.70-0.80
Pakistan Rupee	1.2700	1.2700		
Saudi Arabia Riyal	1.2700	1.2700		
South African Rand	1.2700	1.2700		
Taiwan Dollar	1.2700	1.2700		
U.A.E. Dirham	1.2700	1.2700		

## THE POUND SPOT AND FORWARD

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
U.S.	1.4695-1.4695	1.4695-1.4695	0.04-0.05c	0.04-0.05c
UK	1.1810-1.1810	1.1810-1.1810	0.24-0.25c	0.24-0.25c
Netherlands	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Belgium	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
France	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Germany	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Italy	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Spain	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Sweden	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Switzerland	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Japan	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Australia	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
New Zealand	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
South Africa	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
U.A.E.	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c

## CURRENCY RATES

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
U.S.	1.4695-1.4695	1.4695-1.4695	0.04-0.05c	0.04-0.05c
UK	1.1810-1.1810	1.1810-1.1810	0.24-0.25c	0.24-0.25c
Netherlands	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Belgium	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
France	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Germany	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Italy	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Spain	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Sweden	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Switzerland	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Japan	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Australia	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
New Zealand	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
South Africa	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
U.A.E.	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c

## CURRENCY MOVEMENTS

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
U.S.	1.4695-1.4695	1.4695-1.4695	0.04-0.05c	0.04-0.05c
UK	1.1810-1.1810	1.1810-1.1810	0.24-0.25c	0.24-0.25c
Netherlands	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Belgium	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
France	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Germany	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Italy	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Spain	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Sweden	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Switzerland	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Japan	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Australia	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
New Zealand	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
South Africa	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
U.A.E.	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c

## EXCHANGE CROSS RATES

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
Pound Sterling	1.4695-1.4695	1.4695-1.4695	0.04-0.05c	0.04-0.05c
U.S. Dollar	1.1810-1.1810	1.1810-1.1810	0.24-0.25c	0.24-0.25c
Deutsche Mark	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Japanese Yen	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
French Franc	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Swiss Franc	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Italian Lira	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Canada Dollar	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Belgian Franc	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Dutch Guilder	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Portuguese Escudo	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Spanish Peseta	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Swedish Krona	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Norwegian Krone	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Israeli Sheqel	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Saudi Arabian Riyal	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
South African Rand	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
Taiwan Dollar	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c
U.A.E. Dirham	1.0100-1.0100	1.0100-1.0100	0.24-0.25c	0.24-0.25c

## MONEY MARKETS

## Prospects have not improved

Prospects for lower interest rates have not improved lately. Even a much larger than expected fall in U.S. money supply announced last Monday failed to encourage any optimism, despite the fact that this narrowly based money supply figure had fallen below the Federal Reserve's target range.

Wider based M2 and M3 remained much nearer the top of their ranges, and the better trend in M1 was also expected to be short lived.

Financial markets are now anticipating a bulge in M1 over the next few weeks, and are also facing up to a heavy Treasury funding programme which is bound to follow the eventual passing of the debt ceiling bill through Congress.

In London interest rates were little changed following the Chancellor's autumn statement, while this also reflected trends in the U.S. British Government policy of controlling inflation and curbing back on public spending only underlined a growing conviction that the authorities are not looking for lower clearing bank base rates in the near future.

The London money market remained very quiet last week. Trading was almost completely

in the doldrums, with interest rates showing no movement from one day to the next. In Frankfurt call money was at 5.55 per cent throughout, as nervousness about the rescue of SMF bank faded in the background. The Bundesbank central council met on Thursday, and as expected left key interest rates unchanged.

Unchanged.

In Paris call money was rather volatile, moving between 12 per cent and 12 1/2 per cent, while the Bank of France intervened to buy FFr 5bn of first category paper at an unchanged rate of 12 1/2 per cent.

Unchanged.

In Amsterdam overnight funds ranged up towards 6 per cent despite moves by the Dutch Central Bank to assist liquidity in the domestic money market. The authorities raised the market's credit quota to FFr 6.2bn from FFr 5.5bn for the period from last Thursday until February 15, and also provided a special advance of FFr 3.553bn from the same day until November 30, at an interest rate of 5.75 per cent compared with the normal quota rate of 5.5 per cent.

## LONDON MONEY RATES

	Nov. 18	Nov. 11	Nov. 18	Nov. 11
Overnight	5.55	5.55	5.55	5.55
2 days notice	5.55	5.55	5.55	5.55
7 days notice	5.55	5.55	5.55	5.55
One month	5.55	5.55	5.55	5.55
Three months	5.55	5.55	5.55	5.55
Six months	5.55	5.55	5.55	5.55
One year	5.55	5.55	5.55	5.55
Two years	5.55	5.55	5.55	5.55

ECG Fixed Rate Export Scheme IV. Average rate for interest period October 6 to November 1



## FINANCIAL TIMES SURVEY

## The Netherlands

The Lubbers Government is attempting a partial re-organisation of Dutch society to restore economic order. Its measures, some seen as harsh, will be judged by their results

## Calm at the eye of the storm

TWO HEAVY jolts have struck the Dutch Government in the last four weeks. First, in the Hague, an estimated 550,000 demonstrators staged a powerful protest against the deployment in the Netherlands of U.S. cruise missiles. It was the biggest display of public concern over a single issue since World War II. Short of a last-minute success at the East-West arms talks in Geneva, however, the Cabinet is committed to deployment.

Next, the country's 700,000 public employees—civil servants, customs officials, rail workers, tram drivers, post office staff and others—began a campaign of strikes and working to rule. Their aim was to dissuade ministers from reducing their pay by 3 per cent from January 1. The country was thrown into chaos. Yet the cuts are at the heart of the Government's economic strategy.

What has been truly surprising, given the dimensions of the twin shocks, has been the apparent capacity of the Administration to absorb them. The sort of pressure that has been applied is highly unusual in Dutch society, but Mr Ruud Lubbers, the Prime Minister, has acted throughout with the sangfroid of a man for whom adversity is but a spur to further action.

His Government colleagues have for the most part similarly refused to cave in, and it would seem as though only defeat in parliament and not assaults from the streets, can force them from office.

Such a defeat may yet come about, on the nuclear issue at least. For the moment, there is calm at the eye of the storm.

By WALTER ELLIS  
Amsterdam Correspondent

The Netherlands itself does not share the serenity of its leaders. How could it be otherwise? Unemployment, now affects some 830,000 people, which is 16 per cent of the labour force by the standards of the European Commission or 17.7 per cent by the more rigorous Dutch domestic definition.

## Forgotten army

Various estimates have been made of the future trend of Dutch unemployment. The general view seems to be that a further 75,000 or so will be added to the dole 'queues' in 1984, with the one million mark being reached later in the decade unless either the economy improves markedly or work-sharing begins to take its intended effect.

To an extent, of course, the unemployed are a forgotten army. The 6,000 or so shipyard workers declared redundant by the RSV group earlier this year were much in the news at the time of their dismissal. They were seen as victims of an ill-defined conspiracy and the unions were behind them to a man. Where are they now?

Scattered, doing odd jobs at home or playing dice in dusty bars. Waiting for something to turn up.

Many workers hand in their union cards upon being made redundant, unable to keep up the often hefty payments that membership in Holland entails. The effect of this is that while the unions continue to press for job-creation and seek to ensure a decent standard of living for the jobless, there is little real pressure from within. Instead, the union dynamism springs from those still working.

The anxiety of the shrinking labour force is almost palpable but workers insist that if they are going to remain employed, they want a fair wage, too. Public sector workers are torn between the intensity of their need to hold on to what they have got and their determination, born of a generation of prosperity, not to accept cuts in income.

What the Lubbers Government is attempting is a partial re-organisation of Dutch society to take account of a reduced rate of economic growth. High wages and advanced social expectations are seen as a main obstacle here and the Cabinet has decided, in effect, to employ last year's general election results as a guideline, cutting short public debate on the subject.

Obviously, for a time, the discussion went on, in parliament and with the unions and has now been taken on to the streets by public sector workers. But the Prime Minister shows signs of wanting to act first and ask questions afterwards. He evidently sees no other course, since to wait for general acceptance of austerity would require patience that extended beyond politics.

Last week Government and unions were forced back to the negotiating table on pay by a court order. Publishers of periodicals and magazines had asked the labour court to take action that would enable their

normal circulation, held up by the postal workers' strike, to resume by mail. The judge endorsed their request and the upshot was that both sides could begin talking again without any loss of face. Even so, any compromise that emerged was almost bound merely to take the roughest edge from the austerity programme.

## Profitability

The Government's other priority has been to restore a measure of profitability to Dutch companies hit by three years of recession. A number of incentive schemes for small businesses were announced in the September budget: greater help is also to be given to exporters. But most directly, company tax is to be reduced from its present rate of 48 per cent to 43 per cent from January 1 and to 40 per cent in 1985.

Partly as a result of the increasing level of official support for the cause of profit, but more importantly because the U.S. economy began to pick up steam earlier this year, Dutch companies have done better this year in terms of sales and earnings than for several years. The bankruptcies peak passed in the spring, and more management now seem ready to battle on.

Most of the really big corporations, like Royal Dutch, Unilever and Akzo, have reported sharp upturns this year, especially in the third quarter, while many of the smaller ventures previously in trouble have begun to show evidence of an end to the worst.

The banks are back on an upwards path (although their debt provisions are likely to remain high for some time) and the insurance companies are for the most part back in business after a depressing 1982. Surveys of business opinion reveal no wild forecasts of heady days to come. What they do indicate is a renewed, if cautious, optimism that firm government allied to determined management will

ensure that the Netherlands can join in the international recovery.

For the people, though—those who endure the decisions rather than take them—the last 12 months have been unusually tough. Unemployment, reduced benefits, the future of some schools and hospitals under review, virtually zero pay increases for those still employed—all these factors can easily spell out a society in decline, and social depression only makes real problems worse.

With so much so obviously wrong, it is little wonder that society in the Netherlands has become neurotic of late. Racism, for example, has come to the surface. An overtly anti-immigrant MP was elected to parliament last December, and a recent opinion poll indicates a three-fold rise in support for his views.

On one local election in September, the party concerned, the Centrum Party, won nearly 10 per cent of votes cast. Football boogymania has been imported from England, alongside punk music to the extent that at a match between Tottenham Hotspur of London and Feyenoord of Rotterdam several weeks ago, British fans came out worst in the battle of knives, axes and chains. Two were almost killed.

In Amsterdam, the last year has seen an explosion of graffiti on the streets and, since the summer, on the sides of trams as well. Kids now wait at tram stops with aerosol cans and spray the latest gang slogans on the yellow paintwork in full view of bored passengers.

The other face of the Netherlands—the traditional face moulded by commerce, Rembrandt, Calvinism and open vistas framed by amoudering skies—is still to be seen in 1983. But it is now wearing a frown. Citizens of the small, trim towns and villages so beloved and admired by the tourists carry on with their disciplined, reticent lives.

They work hard and they keep to older ways. Church-going in some areas remains surprisingly high. But the encroachments of late-20th-century street life are to be felt even in the hidden places. Corner cafes play loud music and motorbikes roar along the cobblestones.

## Royal difficulties

Even the royal family, epitome of stability, has been hit this year by public difficulties of a private kind. Prince Claus, the German-born consort to Queen Beatrix, has spent much of the last year in a Swiss clinic receiving treatments for "disorders of a depressive character." Only this month has he begun once more to take on "light" public duties. The people have rallied to the Queen during her family crisis, but the image has been crooked.

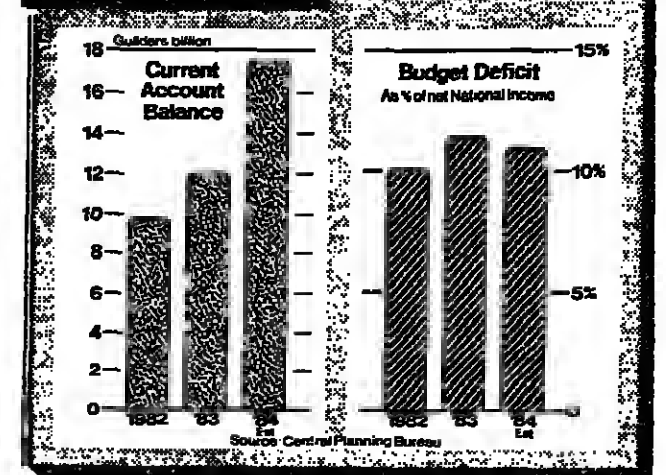
The picture is not uniformly gloomy. The arts are flourishing. Painting is enjoying a further renaissance and the traditional Hague school is, perhaps oddly, enjoying a revival of public esteem.

The Netherlands Dance Theatre has become one of the foremost modern dance troupes of the world, while the National Ballet's glittering production of *The Sleeping Beauty* has become an instant classic. Theatre is far from the main line, but active.

There are stirrings in the undergrowth of television, so that the Dutch version of *Reithianism*—"television is an education medium"—is being adapted to the pleasure principle. Cable and satellite experiments are about to rain down on a bewildered population. The cafes and restaurants are full and the canals retain their ancient charm.

Less pleasing is the deterioration in the international situation which the Dutch Government observes with increasing concern and a growing

## KEY INDICATORS



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sense of impotence. The various crises around the world, as they bring the super powers more directly into confrontation, squeeze out the smaller voices.

The cruise issue is one exception. Here, what the Netherlands does is of real relevance to the Atlantic Alliance, and it is for this reason that in the last 12 months former chancellor Helmut Schmidt of West Germany, vice-president Bush of the U.S. and, most recently, Mrs Margaret Thatcher, the UK Premier, have each visited The Hague to stiffen Mr Lubbers's resolve.

But the country is genuinely divided. Mr Lubbers himself is unhappy about sitting nuclear missiles in what is essentially a pacifist, rationalist state. He appears to have decided that his first duty lies with Nato in the event of a failure in Geneva. Such a decision could contain the seeds of his downfall.

Elsewhere in foreign policy,

the European community remains a major focus and a staple diet. EEC funds—especially agricultural funds—continue to do good work in the Netherlands. There is some concern about reorganisation to come, as demanded by Britain and West Germany. There is also—or was recently—anger about the "unfair" nature of the developing community fisheries policy. No one looks to Brussels for economic salvation. It is recognised that solution lie in other hands.

The Lubbers government is aware that the country has much to be grateful for and much to look forward to. But its own internal lack of cohesion often matches that of the population at large. The Cabinet has, so far, remained united on the major thrust of policy, although the cruise issue has introduced strain.

At parliamentary level, though, the squabbling between

CONTINUED ON PAGE VIII

## Foreign investors are welcome in the Netherlands

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## THE NETHERLANDS II

# Hopes based on high risk programme

**Economy**  
WALTER ELLIS

NEW BEGINNINGS are not always perceived as such. An economy when it is "bottoming out" is in fact in the immediate pre-recovery phase but that does not stop people from finding the sensation disagreeable. Rubbing along takes on a new meaning.

So it is with the Netherlands. Those not armed with the necessary information see only the depredations of the recession: worsening unemployment, company bankruptcies, still-high interest rates and growing labour unrest. They are, of course, right to be concerned about such things. If improvements are not made in each of these areas, the effects on society could be deep and long-lasting.

What they should realise is that there is another side to the balance sheet. Output, profits, sales, orders, exports, expectations — they are all, for the most part, up, while government finances are at least being brought under the discipline of a determined administration.

How that administration eventually fares will depend on its public pay policy and its longer-term response to a variety of questions, including the nuclear issue. For the moment, the business community is relieved that someone has put its difficulties rather higher up the state's list of priorities.

That said, unemployment is the indicator that affects the greatest number; not so much a black spot, more a spreading stain across the fabric of society. It is not made to appear much less of a menace by the Cabinet's insistence that it simply operates on a different cycle from everything else and will

lessen later. The one tangible comfort anxious workers can be offered at present is the news that the queues for jobs are lengthening at a slower rate.

On September 20, Mr Onno Ruding, the finance minister, produced his 1984 budget, the first originated in its entirety by the present centre-right Government. It looks ahead to cuts in public spending totalling F1 11.8bn, leaving expenditure of F1 162.7bn and a borrowing requirement of F1 36bn. This year, expenditure estimated at F1 159bn should be down by F1 14.5bn on original estimates, leaving a borrowing requirement of F1 33bn—some 11.5 per cent of national income.

The aim for 1984 is to effect a major reduction of the budget deficit without raising the overall burden of taxes and social welfare contributions. Second, comes a lowering of the tax and contributions liability of Dutch companies. Corporation tax will be reduced from 48 per cent to 43 per cent and to 40 per cent in 1985.

### Pay cutback

Central to the reduction of public spending is the 3 per cent cutback in public sector pay which has given so much trouble and the parallel decrease in the level of most welfare benefits. Income tax for all but those in the lowest bracket will rise, as will value added tax—both by 1 per cent. Beer, spirits and tobacco will cost more.

Mr Rob Lensink, a leading economist with the Algemeene Bank Nederland (ABN) reckons that, including funds for the repayment of the national debt, the Government will have to find F1 41.7bn next year to bridge the gap between income and expenditure. He feels that this should not cause any problems and is likely to be carried out in its entirety in the capital market, leaving monetary

financing at zero as agreed with the central bank. The low inflation rate in the Netherlands (2.5 per cent), combined with an increasing surplus on the current account of the balance of payments, should meanwhile keep the guilder a strong currency attractive to foreign investors.

Mr Lensink observes that the 1984 budget "marks the reversal of a large number of unfavourable tendencies which caused the Dutch economy to show a relatively poor performance in recent years—a reversal which, if sustained, creates the outlook for a brighter socio-economic development in the coming years."

A somewhat different view of the Dutch economy is contained in a report published this month at the Government's request by the Central Planning Bureau, one of the most respected institutions in the Netherlands. The report observed—much to the chagrin of the Prime Minister, Mr Ruud Lubbers—that the economic strategy of the leading trade union federation, the FNV, was in some ways superior to the Government's own. The FNV plan has three aims:

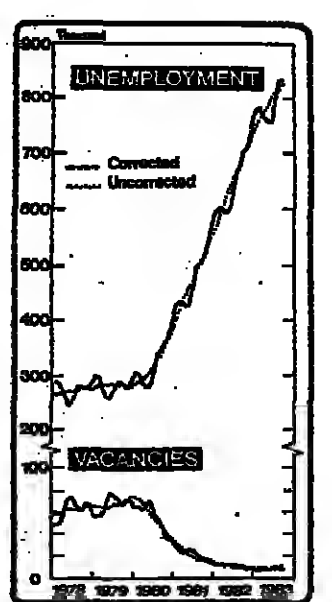
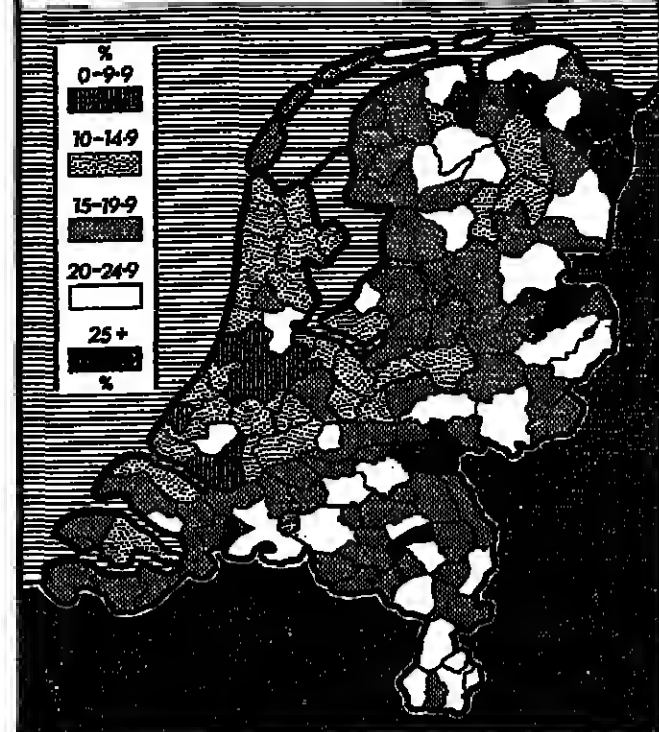
- the stabilisation of consumer spending;
- continuing the redistribution of work through shorter working weeks;
- the stimulation of investment.

Having studied the detailed proposals, the planning bureau concluded they could provide 37,000 extra jobs while boosting production by 0.6 per cent and investment by 4.1 per cent. The budget deficit would, in addition, be reduced by 0.3 per cent by 1987, it said.

The FNV, not surprisingly, saw in the report confirmation of its entire interpretation of what was needed to put the country right. A leading official said that the planning bureau now agreed that the union's programme offered "better prospects for dealing with the economic crisis than the Cabinet."

Mr Lubbers took a different view. The 37,000 jobs, he said, would be bought through a F1 20bn increase in the national debt in 1987, or F1 540,000 per job. Hand in hand with the rise in national debt, he said, would go an increase in tax and social welfare contributions of one per cent and a 1 per cent upwards drift in interest rates.

## UNEMPLOYMENT BY REGION



The one tangible comfort anxious workers can be offered at present is the news that the queues for jobs are lengthening at a slower rate

"This would mean more debts, more taxes and welfare contributions, higher interest rates for everyone and no actual recovery for the economy."

Mr Wim Duisenberg, president of the Dutch central bank, although he has recently been critical of aspects of government policy, sprang to the Cabinet's defence this month only one day after publication of the planning bureau's report.

### Overall approval

Monetary financing, he said, was not an instrument for reducing interest rates. It would only backfire. Investors would lose confidence, and this would lead to higher inflation and an inevitable rise in interest rates.

Mr Duisenberg expressed overall approval of the Government's economic strategy. The country was marching along the right road. Wage restraint would help improve the competitive position of Dutch industry, and cuts on the public sector, generally, would ease pressure on the balance of payments.

for a moment, Mr Duisenberg added that the central bank had made a major contribution to the recovery of the Dutch economy by placing no obstacles in the way of a growth in money supply, which was now high in the Netherlands.

It was almost comical, he said, that Dutch policies should be described as "monetarist" or "dogmatic monetarist" or, worst of all, "Thatcherian monetarist." "I am totally unable to explain why people can describe us as monetarist, a policy which, at least for a period of time, accepts a growth in money supply which far exceeds growth in nominal national income and aims for the lowest possible level of interest rates consistent with a stable rate of exchange."

As far as the guilder was concerned, there was little the Netherlands could do but to keep closely in step with West Germany. The two countries were in a class of their own in the European Monetary System (EMS), with markedly lower inflation rates and without balance of payments problems. Accordingly, it would be wrong for

Holland to try to force up its interest rates; it could only become more competitive by reducing costs.

Such commentary from the widely respected (and nominally Socialist) central bank president, may have been music to the Government's ears. Other support had come in October from the European Commission, which said that the Netherlands' plans to cut government spending would make it easier for the country to hold down interest rates—still the highest in the EEC—and improve prospects for investment.

Any report on the progress of the economy which ended there would, however, fail to take account of a considerable weight of opinion which is arrayed against the Government. Not only the Labour Party and the unions are opposed to the Lubbers plan—even its supporters have doubts from time to time. It is a high-risk programme. If it succeeds, it will represent a breakthrough after years of struggle. If it fails, someone new will have to pick up the pieces.

## Winter survival test for Lubbers Government

**Politics**  
WALTER ELLIS

ONE OF THE most important consequences of the division in the Netherlands between the executive and the legislature is the fact that the former, although largely drawn from Parliament, quickly becomes aloof from MPs and exists primarily in a world of its own. The phenomenon is increasingly common world-wide.

The present Dutch Government is made up entirely of men and women elected to the Second Chamber last September. This need not have been the case and indeed the former Prime Minister, Mr Dries van Agt, was plucked from Academe to enter the Cabinet straight after his election for Justice. But once Ministers were selected to join the Administration of Mr Ruud Lubbers they had each to resign their parliamentary seats, leaving 14 gaps to be filled automatically by fellow party members lower down in the national lists. From then on, individuals who had in many cases been pure parliamentary animals for years were freed from the turmoil of everyday politics and able to concentrate on their departmental briefs.

### Full-time basis

The system should add to efficiency by allowing Ministers to operate on a full-time basis. At the same time, by having to explain their actions to Parliament and by seeking its endorsement for all proposals, Cabinet members remain subject to democratic control, thus ensuring, as it were, the supremacy of the people.

What can go wrong, however—and certainly appears to have gone wrong with the present Government—is that the Cabinet tends to argue out its policies in private, reach informal agreement and bring in MPs only at the end to apply their rubber stamp.

Parliamentary floor-leaders are the main conduit of Second Chamber opinion and also Parliament's main mouthpiece. The more daring and outrageous "backbenchers" certainly make their presence felt but these are statistically rare and are frequently viewed as "mavericks."

Thus a double life goes on in Dutch politics, with even the

Government parties (parties plural, for there is always a coalition producing their own "shadow" Bills and proposals and very often acting as a kind of back-up opposition.

Mr Ed Nijpels, the 55-year-old leader of the Liberal Party, with its 36 seats in Parliament, chose last year not to enter the Government but to remain as floor-leader. From this position he can unparalleled the Prime Minister and his colleagues and lecture them on the finer points of economic and other matters. He knows that, as effective No. 2 in the coalition with the Christian Democrats, he will be consulted regularly on most aspects of policy. He also knows that he can remain to some extent distant from actions taken by Ministers and, therefore, not be tainted by their failure.

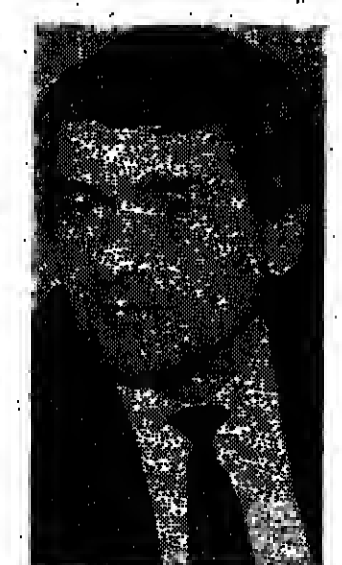
Earlier this month he criticised Mr Lubbers for pursuing the public sector pay debate on television instead of across the negotiating table with the unions. He himself, meanwhile, is a frequent television performer, building up his claim to a leadership next time round.

Mr Bert de Vries, the Christian Democrat floor-leader, is another who likes to have his cake and eat it. It is his job, practically speaking, to deliver the 45 party votes to the Government. More often than not he does so. What he really enjoys, however, is the freedom he has to speak out as a politician of substance and key influence, very often in support of views other than those held by his ministerial colleagues.

The Dutch seem to like things this way. The system gives a certain knockabout feel to politics that would otherwise be largely lacking. For there is a dourness to the present Government that can only be improved by the occasional well-aimed custard pie, even if the pie is usually not appreciated.

Recently Mr Marcel van Dam, a leading Labour Party spokesman and something of an individualist, referred in Parliament to his wife's fears that through higher taxes the Dutch people were being "be-lubbersed." Mr Lubbers was furious, believing, rightly, that the new verb will, at least for some time, enter the language. He seemed genuinely offended that someone should seek to detract from the dignity of his office.

The taxes to which Mr van Dam referred so witheringly were proposed in the 1984 budget, presented to Parliament in September. The budget itself



Mr Ruud Lubbers, Prime Minister: two big issues are deployment of cruise missiles and running the economy

has proved exceptionally controversial and has already led to an almost unparalleled confrontation with the public sector unions. MPs and factions obviously have their views on it but, as usual, when it was introduced it was as though it had been brought down to Earth by a being from another planet.

### Blessing

The Christian Democrats and the Liberals did in fact give it their blessing but this was far from guaranteed and MPs from both parties have been full of comment and criticism ever since. The Labour Party put forward its own alternative budget—something which the Liberals almost did too—but this was lost in the storm that broke over the real thing. Even the fact that the central planning bureau and the central bank felt it was worth looking at did not rescue it from its inevitable plunge into the dustbin of parliamentary history.

While the coalition parties have jockeyed for position (bearing in mind the finite quality of coalition) and while the Labour Party has sought to remind itself into something more appropriate to the 1980s, the little parties of Holland have seemed to lapse into a strange lethargy.

The big exception here is the newest of all—the Centrum Party, avowedly anti-immigrant and in fact widely perceived as racist. The party has

just one MP at present, Mr Hans Janmaat, the character of whose policy can be deduced from the fact that he tried this month to block the naturalisation of hundreds of would-be Dutch citizens by dragging up even such trivial objections as the fact that some had in the past been issued with parking tickets.

According to an opinion poll Mr Janmaat would be joined by two colleagues if a general election were to be held this winter. In a local election in the new town of Almere, Centrum Party candidates attracted nearly 10 per cent of the popular vote. Existing MPs are appalled.

Democrats '66, which had 17 seats in the previous Parliament but holds a mere six now, presents a sorry sight to political observers. A Social Democratic mishmash of individuals, it has sunk out of view since last year's elections and seems set either to carry on in miniature manner for years to come, as one of any number of Dutch Leftist groups, or to expire altogether from want of the will to live.

The other four Left-wing factions currently represented in Parliament have in the meantime banded together for warmth and are to publish a joint list for next year's election. They are, however, so far, however, it has resisted the temptation. It knows perhaps that Labour is making its comeback and could win as many as 54 seats on present form.

The Christian Democrats, who like their Italian opposite numbers have never been out of office since World War II, are aware at the same time that their vote, having for some time contracted, is now stagnating. They hope that a good run by Mr Lubbers will put some air in their bellows.

The two big issues are the deployment of cruise weapons and the running of the economy. If the Government can survive present assaults on both these policies this winter, it should be set for another two years in power. If not, all bets are off.

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## THE NETHERLANDS III

## Corners to be trimmed in scale of development aid

## Foreign policy

WALTER ELLIS

GLOBAL EVENTS over the last 12 months have been so tumultuous and in many instances so far beyond mere calls for reason that Dutch foreign policy, by an ironical twist appropriate to the spiral of violence, has existed in a kind of vacuum. So far as the Netherlands is concerned there is no one out there. Mr Hans van den Broek, the Foreign Minister has continued to tour the world and pronounce the Netherlands' view of each atrocity. But for all the effect he has had, even in the empty chamber of the United Nations, he might as well have saved his breath.

The world today is in too grievous a state of ill-health for the generally liberal and decent sentiments of a Dutch Minister to be heard above the

cries of the wounded, the orisons for the dead and the demands for revenge from the living. When former great powers like Britain, and even France, make only a limited impact on events and when even the U.S. can be humbled by a fanatic in a lorry packed with explosives, what hope is there for Mr Van den Broek?

Only bilaterally or in the international margins (as with the supply of troops to Unifil) is there both cause and effect. Surinam, the former colony next to Guyana, a majority of whose former population now lives in Holland, has given a great deal of trouble this year. There has also been a recurrence of the quarrel with Peking over the sale of arms to Taiwan. Most recently, MPs expressed serious concern in Parliament about the proposed sale to Turkey of 15 ageing Starfighter jets — those which have avoided the supernova phase of so many of their type. In addition, the European Community continues to provide a

more domestic focus for foreign policy while the UN carries on drawing Dutch Ministers to New York as though it really were the centre-stage of world affairs.

## Atrocity

What took place in Surinam last December, just before Christmas, was by 1983 standards a low-grade atrocity. Fifteen leading members of the various groups opposed to the military regime of Lt Colonel Desl Bouterse were shot and killed by troops allegedly while attempting to escape from military custody. The Dutch Government, which knows the country better than anyone else, declared the deaths to have been "executions" and soon after suspended the development aid on which the Surinamese economy largely depends.

Since then Bouterse has variously threatened and cajoled a bid to win back his aid. The threat, only half

stated but with the meaning clear enough, was that if the Dutch did not come up with the cash, others would (and where could such others be found? Col Bouterse is an avowed Marxist, with long-standing Cuban links). The cajoling came in the form of secret overtures suggested compromises and guarantees for the future. Bouterse needs the Eastern bloc's generous on military help but less so with money for agriculture and structural development. More than Fl 500m is at stake over the next few years.

An indication of the gravity of Bouterse's economic problems came recently with his expulsion of a number of Cuban advisers immediately following the American invasion of Grenada. No doubt he was mainly seeking to prevent a repeat performance in Surinam but his message that Parliament was no centre of Cuban expansion was as clear as a neon sign.

Lately, there have been reports (denied in Surinam) that an effort at fence-building is to be made. If so, the Hague will be relieved. The Netherlands' colonial past was on occasions as murky as that of the other European empire builders but the country has slipped into the post-colonial age with good grace and is a generous benefactor to its former subject peoples.

Development aid is in fact a major feature of foreign policy. In 1984, because of the Government's austerity policy, the volume of aid is to be cut in real terms for the first time in many years. The total budget for next year is to be Fl 43.7bn—Fl 38m less than for 1983—and only the deterioration in the economy as a whole enables the figure to remain at the impressive height of 1.5 per cent of estimated net national income. Mrs Eerste Schoor, the Minister for Development Co-operation—a full Cabinet post—has worked

hard in negotiations with her colleagues to secure as much as possible. Clearly, though, some corners are going to have to be cut.

The quarrel with China is potentially serious. Three years ago, when a Dutch shipyard was given an order from Taiwan for two submarines, Peking responded by reducing the level of its diplomatic representation in The Hague to that of chargé d'affaires. It also boycotted the port of Rotterdam for a time and halted a search for oil in Shansi province by Royal Dutch/Shell.

## Peking threats

Attempts by Taipei to place new orders for submarines and minihunters, garnished with hints of further improvements in trade to come, this month put Parliament and brought down from Peking threats of the direst consequences. A new air link between Amsterdam and Taipei, begun this year

by China Airlines and KLM, has done nothing to cool the temperature, with increasing banking and other commercial ties only fanning the flames.

Mr Ruud Lubbers, the Prime Minister, has previously referred to the submarine affair as a purely commercial transaction. Mr Van den Broek, for his part, has insisted that whatever happens the "One China" policy is solid as a rock. Peking has retorted angrily that it is impossible, logically, to endorse Taiwan as coming under the sovereignty of China while at the same time providing it with the means of resisting that sovereignty. For the latest contract, once confirmed, to go through, Cabinet permission was required and the government was not looking forward to taking the decision. The deal could be worth between Fl 1.5bn and Fl 3bn—difficult to refuse, especially with shipbuilding deep in recession.

EEC matters have rarely hit the headlines in the Netherlands this year, the big excep-

tion being the interest shown in the Dutch refusal in October to endorse the latest effort at a common fisheries policy. Fishermen from Zeeland and Friesland felt they were being sacrificed to the interests of Britain and Denmark. Not since the great gas and glasshouses scandal of the 1970s, when Dutch horticulturalists insisted on their right to subsidised heating, has there been such a demonstration of anti-Community feeling.

Normally, little is heard of the Commission and the Council of Ministers; the Strasbourg Parliament, with its Dutch president, surfaces only on the inside pages. The United Nations may still provide scope for detailed expressions of Holland's deepening anxieties about the world; the EEC remains what it always was—a trade mechanism and a club, very much taken for granted. If the Netherlands wants to do something positive to boost its ailing economy, it certainly does not look to Brussels for its salvation.

## Cruise debate dominates

## Defence

WALTER ELLIS

HOW representative of a country of 14.5m people are 500,000 demonstrators against nuclear weapons? Do pressure groups, once their numbers exceed 3 per cent of the population, gain the right to decide public policy? These are vital defence questions in the Netherlands as the Dutch Government edges crabwise towards a final decision on the deployment of cruise missiles.

None of the Nato countries is happy about accepting new U.S. weapons. Fear everywhere has increased about the risks of a shattering global conflict. In the Netherlands, however, anxiety has been given the force of a political argument rooted not merely in the obvious obvious radical factions and peace groups but throughout society. In The Hague at the end of last month the biggest political protest since World War II drew the Dutch Peace Movement into ecstasy and led it to demand from the Government, effectively "in the name of the people," that an enormous "No" be sent to Washington and Brussels, preferably by express post.

## Under siege

Mr Ruud Lubbers, the Prime Minister, understandably feels himself under siege but he has emphasised that the ultimate choice lies still with the Cabinet and Parliament. As far as the former is concerned, the key factor remains the East-West arms reduction talks stuttering along in Geneva. Moscow has only to indicate that it is prepared to cut back the numbers of SS20 rockets it is now installing in Eastern Europe and Holland is off the hook. If, as is considered more likely, the talks disintegrate into a morass of recommitment and petty fogging, Mr Lubbers and his colleagues are duty bound to give the go-ahead for deployment. The government of Mr Lubbers' predecessor, the mercurial Mr Dries Van Agt, gave Nato its commitment in 1979 and any last-minute withdrawal not predicated on a successful conclusion to the Geneva negotiations would go down in the Alliance like Santorini with a T-bone steak. Naturally, the Peace Movement does not see things this



Part of the protest over the siting of new nuclear missiles in Europe which drew more than 500,000 people to The Hague last month.

way. As far as Ms leadership is concerned, half-a-million demonstrators constitutes a democratic majority. Mr Wient Jan Faber, head of the inter-Church Peace Council, said that further mass protests would be held if the Government ignored the message of the rally and sited the missiles. A confederate, Mrs Sielens Strikwerda, warned that the Dutch people had now clearly shown their rejection of cruise.

After the demonstration Mr Lubbers said in a televised statement that he thought only a minority of Dutch people were dead set against cruise. He was basing this claim, no doubt, on three recent opinion polls, which indicate that while only around 27 per cent of those questioned actually gave deployment their unqualified support, fewer than 40 per cent were opposed at any price. A year earlier more than 70 per cent of people declared themselves against. However, while the claims of the Peace Movement require scrutiny, so too do the results of the polls. An eye-of-the-protest survey revealed the "fact" that nearly half of Christian Democrat voters were against cruise; yet in the event only a handful—perhaps a few per cent of demonstrators—turned out to be Christian Democrat supporters.

The Prime Minister cannot help but be impressed by the depth of feeling which the issue has aroused—and there can be no doubting the unease with which the Dutch people as a whole view the nuclear build-up. Nevertheless, he is being careful to keep the matter as one for MPs and the Cabinet to decide.

On television he agreed that the protest in The Hague was a stimulus to halt the arms race. He said also that discussion would continue within Nato, which had preserved peace in Europe for more than 30 years. What had to be remembered was that one-sided disarmament could not be justified. The Soviet Union would not understand such a move and the world would be brought no nearer to peace. Mr Lubbers expressed the hope that Moscow would make a concrete gesture by removing a number of its SS20s and added that he would like to see a second round of negotiations next year if the current Geneva round ended in failure.

## 48 missiles

The formal position is this. The Netherlands has already given permission for preparations to be made for the reception of the 48 cruise weapons assigned to it by the Alliance. A storage site has been selected in the middle of a disused air base in Woensdrecht, in the south of the country near the Belgian border. Sometime soon, probably in the spring but possibly before, the Cabinet will consider the options and take a decision on actual deployment. That decision will be put before Parliament for its approval. Under the Dutch constitution, it may be possible for the Government to override Parliament. On an issue of this importance, however, it is improbable that it would try, and if MPs do give cruise the thumbs-down, fresh elections could be in prospect. The Dutch Parliament has 150 seats, of which in normal

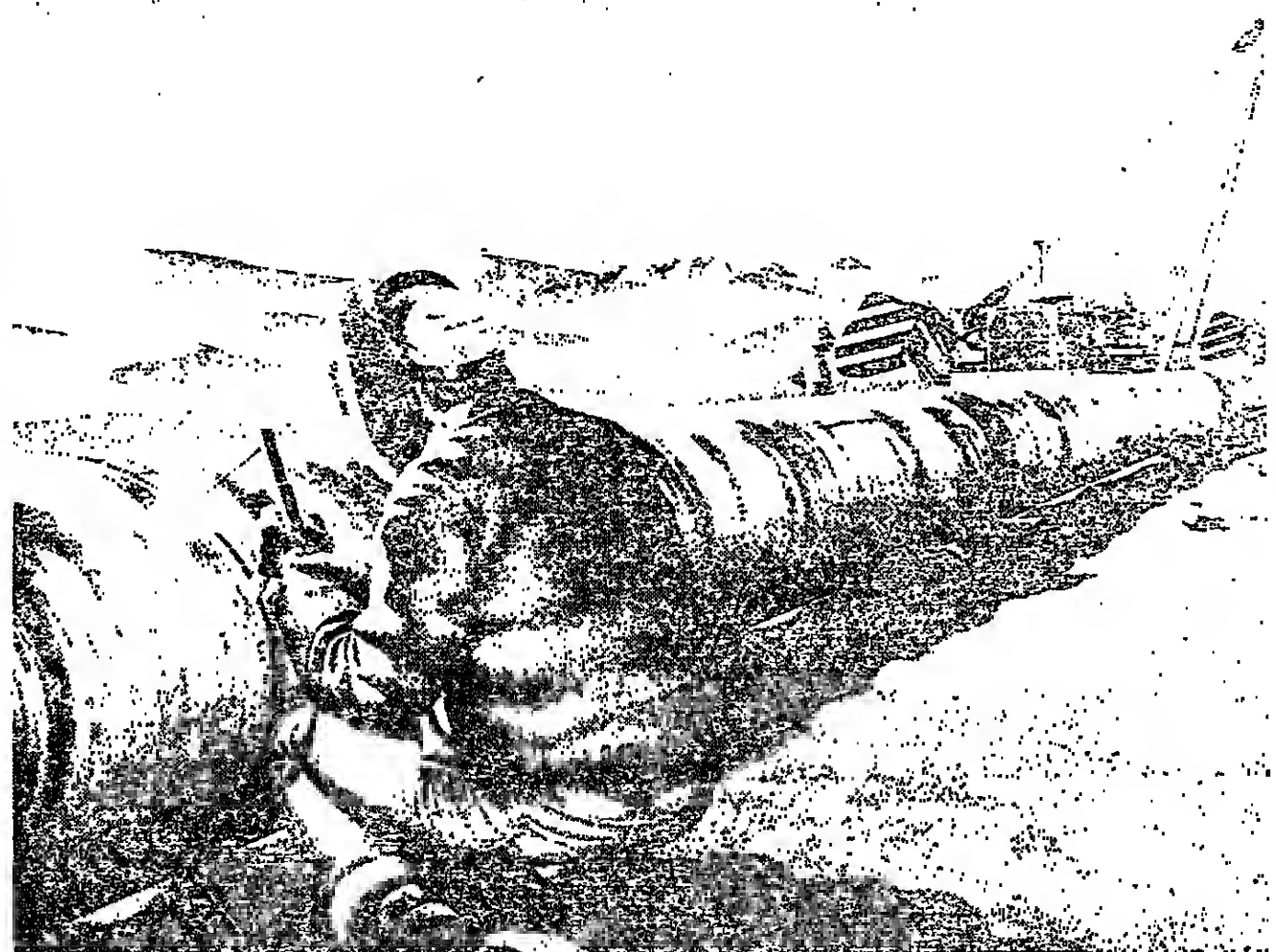
times the Christian Democrat-Liberal coalition controls 81, giving it a majority of 12. But the circumstances in respect of cruise are far from normal. A group of Left-wing Christian Democrats, known perversely as "loyalists" and varying in strength between five and 10, has vowed to oppose deployment. A lot of pressure has been put on the individuals to conform. That, though, was before the Peace Movement's triumph in The Hague. Even within the Cabinet itself there are said to be doubters.

All but a tiny handful of the Opposition—dominated by the 47-member Labour Party—is determined to keep cruise out and if enough Christian Democrats can be persuaded to vote against the whip, it is just possible that Mr Lubbers could face defeat. Certainly he has got to work hard between now and then, impressing everyone, not least on his own benches, that it is the will of the people that is his primary concern and that Geneva must be given every opportunity.

Cruise apart, there are other problems in the defence area that have given trouble this year. Because of budget cuts and confusion over the existing "nuclear tasks" of the Dutch armed forces in the event of war, the 1983 Defence White Paper has yet to appear. It should have been published in the autumn but has been delayed pending resolution within the Cabinet of these twin dilemmas.

Mr Job de Roiter, the Defence Minister, wants to cut back the number of nuclear tasks, which presently include nuclear mines, nuclear canoes and obsolescent atomic anti-aircraft missiles. Right-wingers among his colleagues fear that he is going soft. In addition, the army—which remains highly professional despite the fact that all of its private soldiers serve for only 14 or 16 months—is pining for more tanks, helicopters and armoured vehicles. The navy and the air force (the latter now being equipped with American F16 interceptors) are currently well provided but the "poor bloody infantry" believe it is now their turn.

Defence procurement costs money. Of the 20 batteries of the new Patriot anti-aircraft missile, for example, the Government is going to have to come up with Fl 500m. Offset orders are being sought, but negotiations here are likely to be complex. Just another headache for Mr Lubbers.



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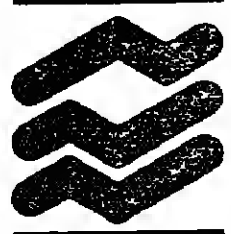
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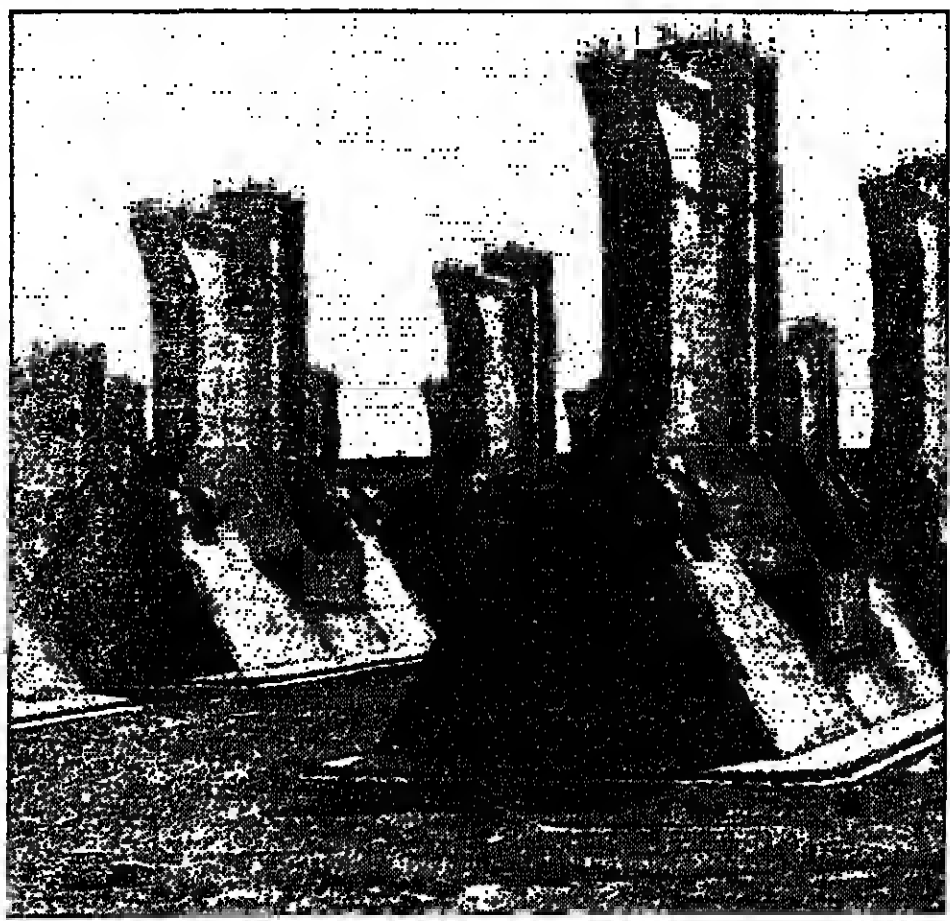
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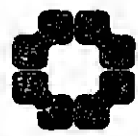


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## Export performance improves sharply

**Trade & Industry**  
CHARLES BACHELOR

TOO FEW companies selling the wrong products in the wrong markets. These, in broad outline, are the criticisms which have been levelled at the Netherlands' exporters in recent times.

They represent harsh judgments for a country which achieved a visible trade surplus of F1 8bn (£1.8bn) in the first eight months of this year and which is forecasting a current account surplus—visible and invisible—of F1 12.5bn for 1983 as a whole.

The Netherlands' export performance has improved markedly in recent years after a patchy record throughout the 1970s. In as far as its export achievements can be influenced from within the Netherlands this has been largely due to government efforts to reduce production costs.

Dutch imports and exports account for nearly 60 per cent of gross national product—against only 30 per cent for Germany and the UK—so the attention paid to foreign trade is understandable.

### Higher rank

Greater political weight is now attached to trade with the rest of the world by the first state secretary for exports at the economics ministry 35 years ago. However, many businessmen still feel that exports should be accorded ministerial rank.

One exporter explained: "We have a minister for development aid but not one for exports. It's easy to disburse aid. Everyone welcomes you with open arms. It's harder to export. Having a minister would help."

Mr Frits Bolkenstein is the country's third state secretary for exports. He does enjoy wider powers than his predecessors, argues the economics ministry. Whereas previous state secretaries could only advise on the granting of export credit guarantees, for example, leaving the final decision to the

finance ministry, Mr Bolkenstein now has a voice in the decision-making process.

How has this improvement in the country's trade position come about? The Netherlands ran into large deficits on its visible trade during the late 1970s. Between 1977 and 1979 the deficit rose from F1 4.78bn to F1 7.2bn. It fell slightly to F1 5.31bn in 1980 and then recovered to a surplus of F1 6.77bn in 1981 and F1 9.73bn last year. Exports amounted to F1 176.8bn in 1982 against imports of F1 167.1bn.

Wage moderation has been an important factor in improving the competitiveness of Dutch exports. Governments have been chipping away at the system of indexing wages to prices in recent years and wage increases have been held down.

The present centre-right Government's more radical approach—seeking a 3.5 per cent cut in civil servants' wages—has provoked labour unrest more severe than that seen for a long time. If the Government succeeds in its planned cutbacks this will give a further indirect stimulus to export competitiveness. Businessmen are worried, however, that industrial action by customs men and other officials will damage the Netherlands' reputation for reliability.

Between 1970 and 1978, unit labour costs in the Dutch manufacturing sector rose 10 per cent faster than those of its foreign competitors. In the 1979-82 period costs lagged 17 per cent behind those of competitors.

Mr Teun Middelkoop, managing director of the Nederlandse Export Combinatie, a co-operative promoting exports for its 320 corporate members, comments: "We priced ourselves out of markets in the 1970s. If you have been doing that for 10 years you will not make it good in two years."

In 1970, the Netherlands had a 4.5 per cent share of world trade but by 1980 this had fallen to 4 per cent. This relative decline was for many years masked by the overall growth of world trade but once trade started to slow down again the weakness of the Dutch position became clear.

"If we had retained our 4.5 per cent share we would have exported F1 22bn more in 1982," says Mr Middelkoop. "That

would have removed 200,000 people from the unemployment register."

The aim of Dutch foreign exchange policy has been to keep the guilder in step with the Deutsche mark to maintain competitiveness both in Germany and in third markets and to dampen imported inflation. This led to the firming of the guilder against the Netherlands' biggest trade competitors by 1 per cent a year between 1971 and 1975. Since then, however, it has fallen by 1 per cent a year giving a further boost to exports.

The move into large surpluses on the foreign trade and current balance of payments accounts owes much to the low level of imports. Investment spending by industry has been depressed in recent years while wage moderation has held down consumer spending. Industry's investment fell 2.5 per cent in volume last year while consumer spending was 1.5 per cent down.

### Fall in spending

Consumer spending is forecast to fall further this year and next but company expenditure is expected to show rises of 3.5 and 2.3 per cent in the two years. If Dutch industry recovers imports will inevitably increase.

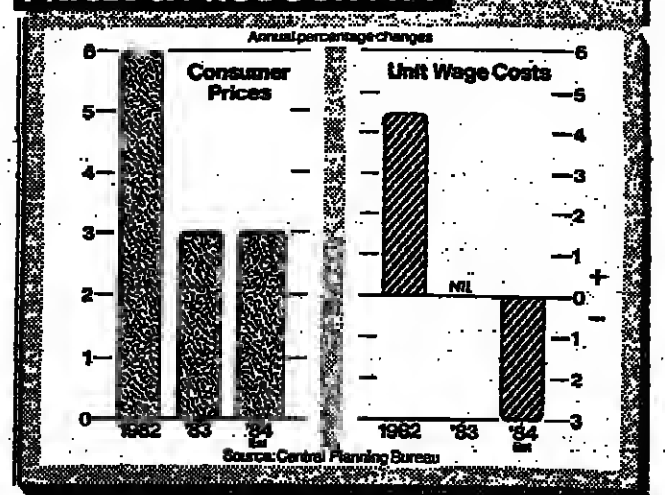
Volume exports are, nevertheless, expected to exceed imports in 1983 and 1984. Official forecasts indicate a 3.5 per cent rise in exports this year and a 5 per cent increase in 1984. Imports are expected to rise 2 per cent by volume in both years.

Price developments have been less encouraging and the terms of trade have worsened this year. Export prices are forecast to be unchanged in 1983 and rise 2 per cent next year. Import prices will go up 1 and 3 per cent in 1983 and 1984.

One reason for the strong export performance since 1981 is the content of the trade package. The large part played by petrochemicals, agricultural and intermediate products means Dutch exports respond immediately to any upturn in world trade as manufacturers start to build up stocks.

The lack of a strong capital goods sector in the Netherlands

## PRICES & PRODUCTIVITY



is, in contrast, a source of concern. The Netherlands shed industrial jobs faster than the EEC average in the 1970s as the newly industrialising countries took a greater share of much manufacturing.

A White Paper drawn up by the economics ministry towards the end of last year concluded that the Dutch export package was inferior to that of its competitors. The fastest growing sectors of international trade—for high quality products and services—were under-represented, it said.

It was also critical of the concentration of the Dutch export effort on Western Europe. Some 70 per cent of exports go to EEC countries with a further 10 per cent destined for other West European countries. Relatively little goes to oil-exporting countries and the developing nations.

Earlier this year the Advisory Commission on Industrial Policy recommended greater support for the export efforts of medium and small companies.

Counter-arguments have been advanced against most of these criticisms. The central planning bureau has pointed out that a reliance on agricultural products and food exports has cushioned the decline in international spending on capital goods and consumer durables.

Exporters argue that Dutch farmers and food processors have consistently improved the quality of their products to defend their markets and maintain their added-value.

Recent statistics show that the concentration of Dutch exports on Western Europe has been an advantage at a time when demand from the Middle East and from the developing countries has been relatively weak. By contrast, markets in Europe have been strong.



Dr Anton Dreesmann transformed the store group into an international retailing and service conglomerate.

## PROFILE:

**ANTON DREESMANN**

## Architect of wider horizons

IN UNDER eight years Vroom en Dreesmann, the family-owned department store group, has been transformed into an international retailing and service conglomerate with operations in three continents. The architect of this change has been Dr Anton Dreesmann, now 60, grandson of one of the joint founders.

"All our profits come from our diversifications," he says, sitting in his office in an anonymous block on the outskirts of Amsterdam. "It all comes from companies we did not have six years ago. Our traditional businesses are just breaking even. We have given ourselves two to three years to solve that problem."

Dreesmann attributes the rapid growth of his company, now re-named Vender International, to "strong decentralisation and short communications links."

"We carry on the financial and fiscal work at a central point but people in the divisions are given responsibility. Commercial considerations prevail in all our operations."

In public companies managers take a three-year view. I can look at the longer term. That is one of the advantages of being a private company. We are also frugal with dividends since we have well-keeled shareholders who can wait for their money."

Dreesmann is now busy applying his retailing philosophy to Sears, Roebuck's Brazilian stores, recently acquired by Vender.

"We have big plans for that company," he says. "With our Ultramar subsidiary this acquisition makes us the fifth largest retailer in Brazil. We will be number two or three in 10 years' time."

"We will keep the two companies separate since they operate in different markets. The former Sears stores will be run by Brazilians with one man sent out from the Netherlands. Sears ran it by sending orders out in 17-fold from Chicago Tower and they did not keep a tight watch on margins. We will computerise their operations."

A doctor of economics, Dreesmann holds a professorship at Amsterdam University where he lectures two hours a week on business studies. "It forces me to read, to match theory and practice," he says.

Dreesmann is critical of what he sees as the post-war vogue for macro-economic studies which meant that the details of how a business actually worked were ignored. "I query the value of the conclusions you can reach with macro-economics," he says. "But now all the big economic institutions are full of old men there are no jobs for young people to move into. This has forced them to look again at business studies."

Dreesmann foresees a dramatic fall in Dutch retail spending next year as government controls are being brought in. Fine tuning is called for if the retail sector is not to be killed off altogether, he urges. Public sector austerity may mean less will be spent in his stores but Dreesmann sees compensating benefits for his service companies if the government decides to privatise some of its activities.

Charles Batchelor

## Fears over effects of consumer spending fall

**Retailers**  
CHARLES BACHELOR

DUTCH RETAILERS view the future with growing apprehension. After a long period of rapid growth both at home and abroad during the 1970s they now face a period of declining consumer spending.

The Dutch Government's austerity measures are aimed at achieving a further degree of public sector wages and continued wage moderation in the private sector.

The large retailing groups have responded in a variety of ways and with varying degrees of success to this challenge. Ahold, the largest food retailer, has put far greater emphasis on keen pricing and own-label goods. Vender International (formerly Vroom en Dreesmann) has expanded into the services sector in the Netherlands and into retailing abroad; KBB, the least successful of the big three has been forced to sell off stores and cut its workforce.

Consumer spending, by volume, fell 1.5 per cent last year and is expected to decline by a similar percentage in 1983 and 1984, according to the Government's central planning bureau.

### Wage moderation

Retail spending has fallen even more sharply, by 4 per cent in 1981 and a further 4.5 per cent last year. While government policies impose wage moderation, essential family spending outside the retail sector on heating and lighting, rents, medical treatment and public services has gone up sharply.

Retailers originally expected a 13 per cent decline in customer spending in 1981-84, according to the KBB group. They now anticipate a drop of 20 per cent, which would take spending back to 1975 levels.

Dr Anton Dreesmann, chairman of Vender, said: "The Dutch consumer must be given a glimmer of hope—if only to counterbalance the systematic doses of dire tidings with which the Government has put a brake on domestic demand."

The Government's handling of the problems recently encountered by KBB show it is prepared to accept a shake-out of the retail sector, even if this leads to a further increase in

the already high levels of unemployment.

KBB's heavily doubled its net loss to F1 60m (£13.5m) in the year ended January 1983 on turnover just 6.5 per cent higher at F1 3,360m (£777m). The group's problems arose from the concentration of its flagship 'De Bijenkorf' stores on up-market home furnishings, household goods and fabrics at a time when many people were reducing spending on these items.

On top of an expensive store refurbishment programme KBB spent about F1 60m on a new headquarters on the outskirts of Amsterdam. Its cautious expansion into the US, with the purchase of Macks Stores, a North Carolina-based group, did not prove as profitable as was hoped and Macks has been sold.

The relative success of KBB's Hema chain, supplying a limited range of cheaply-priced household goods was not enough to compensate for these problems. The Government rejected KBB's request for a F1 60m loan although it has granted a three-year moratorium on interest payments on an existing F1 50m loan.

"The Government accepted that there must be cuts in retailing capacity given the lower spending levels," said the economics ministry. "It argued that the size of the retailing sector did not depend on specific shops so any aid would distort competition. It took the view that retailing was not of strategic importance to the economy."

The Government did actively assist the negotiations between the company's unions, bankers and shareholders however.

One shareholder to benefit from the problems of KBB was its major rival, Vender International. Vender's 20 per cent holding in the group was increased to 40 per cent and Vender chairman, Dr Dreesmann, took a seat on KBB's supervisory board.

Dr Dreesmann says he takes an "arms' length" attitude to his supervisory board position, and his company's closer links with KBB are only prompted by a concern for the future of the retailing sector generally.

Vender has certainly long been aware of the dangers of taking too prominent a role in the Dutch retail sector. Whether links between Vender and KBB grow any closer will obviously depend on the latter's success at overcoming its problems.

Vender, which operates department stores, clothing and food outlets, meanwhile con-

tinues its policy of diversifying out of the hard-pressed retail sector into the provision of services. These now range from industrial cleaning, through banking, catering, employment agencies and security to express parcel services. A number of joint ventures in several of these areas are now under discussion with potential Dutch and foreign partners.

Overseas Vender recently acquired Sears, Roebuck's 11-strong chain of Brazilian stores, which, with the Dutch group's own 45-strong Ultramar chain, makes it the fifth-largest retailer in Brazil. Vender aims to be number two or three in 10 years' time.

### Profits recover

After a dip in 1981-82 to F1 103m Vender's net profit recovered to F1 132m last year and could well achieve a new record of around F1 190m in 1983-84. Turnover is expected to rise to about F1 12bn this year from F1 10.7bn.

Ahold, with 650 supermarkets and other stores in the Netherlands, has achieved pre-eminence in the grocery field. Net profits have risen strongly in recent years, increasing a further 20 per cent in 1982 to F1 64m on turnover of F1 5,340m.

One sizeable retailing chain with its roots in the Netherlands remains a mystery. C & A, the international clothes retailer, with stores throughout Europe and the U.S., publishes no consolidated figures. Company reporting legislation in both the UK and the Netherlands has been drafted to exempt the group from scrutiny.

Only in Germany is the company obliged to report, in summary form, its annual results. These revealed a lower 1982 net profit of DM 178m (£45m) on turnover of DM 5,520m, compared with profit of DM 201.2m on turnover of DM 5,540m the year before.

C and A has come under pressure from trade unions in 13 countries where it operates to provide more information under the OECD "Guidelines for Multinational Enterprises."

C and A denies that splitting the group into individual national entities is a "fiscal facade." It argues that the structure of the company, under which the managing partners in the Netherlands assume unlimited liability, means it is not required to publish financial information either in the Netherlands or to the OECD.

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## THE NETHERLANDS V

# Budget deficit forces shift in strategic planning

**Energy**  
SIMON GESCHWINDY

SHORT-TERM expediency has triumphed over longer-term strategic planning of Dutch energy policy. The present Centre-Right coalition government recently overturned its predecessor's policy of conserving indigenous natural gas reserves for high added value uses and as a hedge against energy crises. Faced with a gaping hole in the budget, the Government recently abandoned selective gas use and sanctioned extra gas supplies to power stations. Two basic objectives, gas conservation and fuel diversification, have slipped a few places on the Government's list of priorities.

Gas is still the cornerstone of the Netherlands' economy. But despite falling consumption it will run out soon after the turn of the century. The country has long faced the challenge of spinning out this cheap, high-strain clear energy source which supplies over half its total energy requirement. But in these straitened times of recession budget requirements have gained immediate priority.

The previous Centre-Left Government saw two main options to replace gas. The first was to build up coal-fired and nuclear-based electricity production to the point where each would account for 40 per cent of total production by the year 2000. The second was to expand coal-fired electricity production to 80 per cent of the total, leaving the remainder oil-fired. The choice would depend on the findings of a public energy debate on the future of nuclear power.

## Management

The Government acknowledges the need for careful management of the country's energy resources but has had to face the fact that coal is no longer competitive with gas. Dutch gas prices are linked to those of heating oil, whose prices have fallen and are not forecast to recover before end-1984. Power-station conversion from gas and oil to coal is no longer so attractive. Construction of nuclear power stations in the Netherlands is an ultra-sensitive subject, charged with emotions; any decision will have to await the conclusions of the public energy debate at the end of this year.

But declining growth of electricity demand has taken the heat off the question in the short term. The country's electricity production overcapacity of 3,000 MW out of a total 15,600 MW. The electricity producers say this will last until at least 1990.

The public energy debate leader, Maxima de Bruin, says: "Latest indications 'on the growth of energy consumption are such that we can probably get by until the year 2000 with-

out expanding current nuclear capacity beyond the existing 500MW at Borssele and 450MW at Borssele."

The Dutch Economics Ministry last month presented proposals to centralise management of electricity production and fuel purchase by 1988. The Ministry says this is to produce uniformity of electricity tariffs. It considerably boosts government influence on pricing policy.

The new Bill provides for complete restructuring of the electricity supply system by setting up one national production company, with provincial and regional distribution centres. Because of the complexity of the plan and strong opposition by the utilities the Government has opted for gradual phasing in of its various measures.

The electricity producers association, SEP, responsible for annual grid planning, will become a limited company in charge of new power station construction and operation. Fuel purchase and distribution will be pooled nationally and electricity supplied direct to large users and the utilities at prices approved by the Economics Ministry. The price to large industrial users will be linked to that of imported electricity to ensure competitiveness with neighbouring countries.

Economics Minister Gijze van Aardenne recently agreed with the electricity producers that commerce and industry should benefit from the recent fall in oil prices. On that basis the large user rate will be pegged next year and small users will pay only 2 per cent. The Government says it will continue to stimulate industrial combined heat and power (CHP) projects. CHP capacity will be raised by 100 MW this year to a total 1,500 MW.

National price structuring has been difficult in the past because provincial producers with cheaper fuel bases such as coal have jealously guarded their pricing autonomy, often using profits to support local social security.

The gas utilities cooperative Vegin is still fighting a protracted battle with the nation's gas corporation Gasunie over next year's small user gas price. Government-backed Gasunie says the price for users of up to 170,000 m<sup>3</sup>/year (cubic metres a year) should continue to be linked to the cost of heating oil. That will push it up by 84 cents in January 1984 to a total 52.6 cents/m<sup>3</sup>. Vegin opposes this on the grounds that heating oil is no longer an alternative fuel to gas and adds that the dollar exchange rate can produce artificial price movements of dollar-priced heating oil. Vegin says a 3.4 per cent rise adds another 100-200 to a year's average household energy bill, a time of high unemployment and stagnating wage levels. It is pressing for establishment of a market price

for gas, and says it will take the case to the European Court of Justice in Luxembourg unless Gasunie gives way.

## Postponement

Minister Gijze van Aardenne recently said he would accept postponement of a price increase until April 1984—but only if the resultant F1 105m budget deficit is filled by a temporary rise in duties on tobacco and alcohol.

The previous Government supported selective gas sales for CHP and high added value applications. In November last year the incoming Cabinet was strongly advised by the government-advisory General Energy Council to continue with this policy. But under pressure from industry to keep electricity prices at a level on a par with other European countries, the previous Government had already sanctioned Gasunie to sell an extra 260m m<sup>3</sup> of gas to the power stations at a coal-parity price to 1987, by which time the new Dutch coal age would have dawned. This was justified on the grounds that gas consumption is falling, that industry urgently needed lower electricity tariffs and that the additional gas sales would shore up declining gas revenues to the Government.

The present Government continued on this basis. The Economics Ministry confirmed last month that it plans entirely to abandon selective gas allocation. Gas sales will now be determined by market forces. It adds that it is willing in principle to approve new gas export contracts, depending on the size of reserves.

## Negotiations

Efforts have been made in recent years to relieve dependence on Groningen gas by substituting LNG imports and coal gas. The Netherlands still imports 2m m<sup>3</sup>/yr gas from Norway but takes on additional supplies from Algeria and Nigeria on a long-term basis. The producers' problems in financing liquefaction facilities. Similar negotiations with the Soviet Union for 2m m<sup>3</sup>/yr detailed last year when Dutch industry was cold-shouldered on award of construction contracts for the new trans-Siberian pipeline. Economics Minister Gijze van Aardenne says it may reopen negotiations with Algeria and the Soviet Union in the early 1990s, depending on demand levels, but that meanwhile surplus domestic reserves will see it through the 1980s.

Shell, Gasunie and a number of other companies have cancelled coal-gasification projects because of escalating construction costs and doubts on the viability of coal gas in the light of falling prices for alternative fuels.

The Government says it will give priority to smaller offshore fields and offshore exploration and operation to retain the strategic function of the major Slochteren gas field in Groningen. The current high level of

exploration activity in the Dutch North Sea sector is expected to produce reserves sufficiently to meet 20-25 per cent of national demand by 1988.

Dutch oil and gas North Sea drilling have been, or are feverishly high, reaching a record level of 45 in 1982 compared with 32 in 1981. These produced five new gas and six new oil fields. A further three fields were found onshore.

The Dutch geological department, RGH, says oil reserves have risen from 59.2m m<sup>3</sup> to 87.0m m<sup>3</sup>, including a massive offshore rise from 19.3m m<sup>3</sup> to 49.0m m<sup>3</sup>. These include the "spectacular" find by the offshore concern, Holland Sea Search, announced earlier this year. The Government acknowledged that the 50m-barrel oil boosted indigenous reserves from 5 per cent to 20 per cent of national requirement. Mobil, one of the partners in the sector, says the amount of oil reserves and continues to maintain that the size of reserves is uncertain.

The Netherlands now has 83 onshore and 71 offshore gas fields. But recent oil price developments have prompted profit expectations for oil and gas, so the Government has provisionally abandoned proposals to increase its stake in minor fields.

## Low profile

In complete contrast to previous policy, coal has been given a low profile and its introduction for industrial under-firing and syngas production mothballed. A number of coal-burning projects have been scrapped in the past year because of escalating construction and environment costs and the diminishing coal price advantage over oil. They include a new 600MW coal-fired power station in Dordrecht and a 500 MW station in Amsterdam.

The electricity producers' association, SEP, had originally planned to convert five oil/gas-fired power stations to coal. But the programme has been cut to three: 1,050MW, 375MW and 225MW at a total cost of F1 1.5-2.0bn. Construction of a F1 500m, 25m t/y coal terminal on the Maasvlakte near Rotterdam was postponed for one year last month. It is now scheduled for completion in 1988.

The General Energy Council is highly optimistic about wind-power potential in the Netherlands. Main application would be for pump stations on reclaimed land below sea level. The council estimates that 10 per cent of the country's electricity could be generated by wind power before the end of the century, saving an estimated 10 per cent of electricity production costs. The electricity producers association plans construction of a F1 10m, 10MW windfarm of 30-40 turbines. Solar energy has not been a success in overseas Holland and the country is planning their hopes on its export potential in sunnier regions.

## Recovery signs start to appear

**Chemicals**  
SIMON GESCHWINDY

DUTCH chemicals producers are struggling to survive in a sick industry—and doing relatively well. Losses have been cut. Profits have been reported in some sectors. Exports are up. There is now talk of a recovery. But a complete cure, if ever achievable, is still not in sight.

The industry's association, VNCI, while lamenting the passing of a good year in 1979 and a reasonable one in 1980, continues to bemoan the rising cost of energy and feedstocks and of tighter environmental and safety legislation, claiming that Government regulations aimed at improving the country's quality of life often present a threat to competitiveness in foreign markets. The industry is quick to point out that over 90 per cent of its production is exported and that it accounts for one-sixth of total Dutch exports.

The value of chemicals exports rose 9.2 per cent in the first half of 1983 to F1 14,568m from F1 13,332m in the corresponding period of 1982—compared with a 6.7 per cent rise in imports from F1 7,902m in the 1982 first half to F1 7,792m this year. Total export growth of Dutch goods amounted to a mere 2.7 per cent.

Growth of chemicals exports was attributable mainly to a 19.5 per cent rise in the value of plastics, cellulose and synthetic resins sold abroad. The bright spots are low density polyethylene and PVC whose prices have firmed up rapidly. Ethylene is described as reasonable but other base chemicals are very weak.

Producers say that demand is strengthening, but the strong dollar and the high dollar price of ammonia feedstocks mean that cracker operations can barely break even. The industry's total turnover in 1982 rose to F1 35.0bn from F1 33.9bn

in 1981. It plans to invest around F1 2bn this year.

Prices of petrochemical products have increased but are still insufficient to offset the pressure on margins by higher energy and feedstock prices. Base chemicals form a large proportion of the industry's product package. Specialty chemicals are more attractive because of their higher added value, lower energy quota and ability to compete on quality or innovation rather than price. But any shift away from bulk products will take decades to achieve.

The Dutch chemicals and fibres group Akzo says it has felt the effect of a "slight recovery" but has little faith that it will last. But it does have the advantage of the strong dollar because of its large sales in American markets.

This factor helped it double its second-quarter net profits and increase turnover by 5 per cent. Profitability generally has been improved by some severe corporate surgery, particularly in the fibres sector, long plagued by heavy overcapacity.

## Profits higher

Second-quarter net profit of F1 115.6m brought first-half profits to F1 172.4m compared with F1 85m in the corresponding 1982 period. First-half turnover rose from F1 7.3bn in 1982 to F1 7.87bn. Akzo says 1983 profits will be "well in excess of last year's figure." The group's base chemicals division, Akzo Zout Chemie, which described 1982 as "the worst in its history," says there is now evidence of recovery, particularly of its vinyl chloride monomer, VCM and PVC activities.

Akzo Pharma boosted pharmaceutical sales by 5 per cent to F1 415m and reports a 10 per cent increase in operating income. It described 1982 as a record year and is clearly in a far healthier sector than the other divisions. Akzo says earnings on man-made fibres are still "unsatisfactory."

DSM, the state-owned chemi-

cal group, says business is improving on a number of fronts and that there is a good chance of making profits in the second half. But it adds that base chemicals business is poor and returns on investment inadequate. After plunging deeply but briefly into the red last year it has returned to the black with a first-half profit of F1 26m compared with a F1 22m loss in 1982. Next year's rise from F1 10.3bn to F1 10.6bn, DSM blames poor performance on rising dollar-priced feedstock costs and currency devaluation in export areas. Poor Third World purchasing power but for sales, which fell for the first time since World War II.

DSM bedded down with French producer EMC this year for production and sale of PVC. We are open to other similar ventures," says DSM chairman Wim Rogers.

Recently announcing his mid-1984 retirement, Rogers said that the prevalent anti-chemical industry attitude at Dutch polytechnics and universities should make way for a "new realism." He said the alienation threatens the Dutch industry's competitiveness in high value and research-intensive products. The VNCI recently joined the Royal Dutch Chemical Federation, KNCV, to investigate areas of common interest between universities and industry.

But the Dutch chemical industry has a chronic image problem. It is confronted by the Herculean task of cleaning up its waste problem, as well as living down its reputation as the major single threat to the environment. There have been a number of serious pollution scandals in the Netherlands in recent years involving illegal dumping of toxic chemical waste. It is understandable that the industry's cries of protest at stricter measures to control pollution are received with little sympathy by the Dutch public.

Overcapacity in most base-chemical sectors is discouraging further investment in new plant. Most projects are aimed at re-vamping, energy conservation and environmental improve-

ments. The more speciality, higher added value areas are attracting some new investment.

One example is Du Pont's decision to construct a 2,000-tonnes-a-year, 200,000-m<sup>2</sup> plant at Dordrecht scheduled to start up in 1988. The F1 100m plant is the final stage of Du Pont's F1 400m five-year programme starting 1981 to make Dordrecht the world's largest shoe producers site.

## Fibres plant

Akzo's Enka fibres group has started construction of a F1 600m, 100,000-tonnes-a-year "Arenka" fibres plant in Emmen for completion in 1985. Akzo Zout Chemie has started F1 40m modernisation of its 400,000-tonnes-a-year soda ash plant in Delfzijl and has built through 250,000-tonnes-a-year chlorine plant on stream in Rotterdam at a cost of F1 300m. This is likely to be the last large-scale base chemicals investment in the Netherlands this decade.

General Electric Plastics is constructing a new F1 250m polyphenylene oxide plant in Bergen op Zoom for completion in 1985. Two major Dutch fertiliser producers are building new ammonia plants scheduled to come on stream next year—NSM in Stuiskil belonging to the Norwegian chemicals concern, Norsk Hydro, 850,000-tonnes-a-year for F1 400m, and DSM subsidiary, UFF, in Geleen 440,000 tonnes for F1 300m.

The Dutch chemical industry has long warned the Government that high energy costs in the Netherlands will lead to closures. By the beginning of this year the rumblings of discontent about high electricity tariffs had become loud enough to attract the attention of political circles in The Hague. The producers' prayers were recently answered when Economics Minister Gijze van Aardenne pledged himself to centralise control of electricity production, to index the price for very large users such as Akzo and DSM to that of imported electricity to avoid distortion of competition—and to peg the 1984 large-user price.

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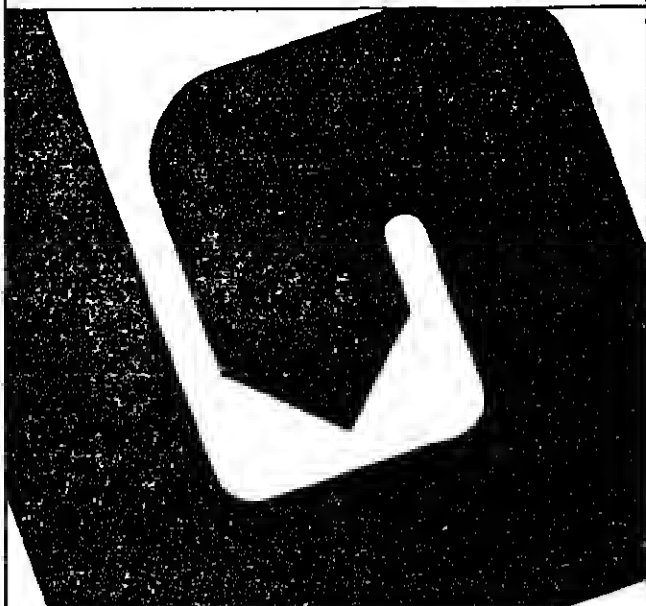


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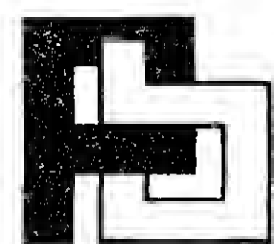
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## THE NETHERLANDS VI

# Philips puts its faith in joint ventures

**Electronics**  
WILLIAM THIRD

THE STREAM of innovative products that emerge from the Philips research laboratories in Eindhoven and the contribution made by the company to the country's balance of payments would seem to ensure the continued international significance of the Dutch electronics industry. But while the company still provides employment for some 73,000, it has recently cut jobs and cannot be looked to for the additional growth which it was hoped electronics would provide.

The presence of such a large company in a small country has a profound effect on the dynamics of the domestic market. For example, the company's consolidation of the Dutch electrical and electronics market over the years has given it a domestic dominance that would be unthinkable in an economy the size of West Germany's and impossible in the U.S. While it would be wrong to say Philips has everything its own way, the scope of its activities means there is hardly a government contract or aid package for which some of the company's products are not eligible, thereby inhibiting access to one of the "step-ladders" for new company growth.

On the other hand, Philips does support an infrastructure of thousands of sub-contracting companies, although most of these are at the "low end" of high technology.

Against the odds Philips has made impressive international acquisitions and agreements in the last two years. Most notably and

recently the telephone agreement with AT & T. In a period that has seen many familiar brand names disappear, Philips has continued to be profitable—although a return of 1.1 per cent recently has not satisfied the company or stock market.

For a company that emphasises its high technology, Philips is paradoxically showing better profits from mature activities like lighting and lower technology personal care products. There has also been a comparatively greater contribution to overall profitability from the markets for industrial or "professional" equipment. Plenty of high technology there, but it could be said that Philips' own technology is in question in one of these markets too, in view of the telephone agreement with AT & T. However, this could prove to be a masterstroke, bringing Philips the ripe digital technology without incurring the huge research and development costs involved.

The agreement with AT & T on digital switching and transmission technologies will also improve Philips' ability to exploit the vast potential of combined computer and telecommunications services or "telematics." For example, electronic mail, network communications.

### A shakeout

The high development costs of the new digital equipment will shake out smaller telephone companies which have existed on domestic demand in a world market renowned for its practice of national preference. With its low Dutch profile and fairly autonomous national organisations, Philips has managed to avoid such discrimination, being treated as a domestic

supplier in many countries. In exchange for their digital technology AT & T will get the benefit of Philips' knowledge and marketing expertise in countries traditionally outside the freedom of North American telephone equipment manufacturers.

Philips is the first to admit that it has coped well with the physical barriers in EEC and world trade, and it is well versed in negotiating at government level all over the world. However, the company did not grow to its present size in the market for professional equipment but on massive sales of consumer durables like colour TV sets. And it is here, in the hurry-burry of the consumer market, that Philips is having problems. Most notably in the struggle with Japanese companies for the video-recorder market.

Technically Philips is strong in the development of video cassette recorder and the optical disc. Philips has applied in the Compact Disc and LaserVision. It is in taking certain of these products to the marketplace that deficiencies in marketing and commercial skill have been revealed. The company quickly lost its innovator's lead in the video recorder market when Sony and JVC developed their own Betamax VHS systems. Philips were also slow in responding to the demand for pre-recorded programmes.

The extent to which Philips have hampered its approach to the early video market by the fact that policy decisions were made in a country where television, certainly by Japanese standards, is a comparatively under-developed medium, is a matter of conjecture. But Philips' pronouncements about the importance of being in markets like the U.S., where consumers are less conservative

is perhaps a partial recognition of this effect. But Philips still seem to be confusing the "conservatism" of their home market with the wider European market.

In video-recorders the U.S., with 40 TV channels might be the biggest market, but it is four-channel Britain that has the highest per capita ownership of video-recorders and home computers. Many of the recorders in British homes are rented from High Street chains which also hire out the pre-recorded programmes. Philips, a long and significant presence in the UK television market, sold its interest in just such a High Street chain as late as 1978.

In the second round of the video battle Philips planned its prestige and money on the V2000 system. But despite the technical excellence of the system the price-cutting war by the Japanese shortly after its launch severely damaged its chances. Philips was forced to lower prices, particularly in West Germany.

The latest development came with the announcement by V2000-system partner Grundig that they would make VHS system recorders alongside the V2000 system. Philips had earlier announced that it was considering VHS video-recorder production at its factories in Vienna and Krefeld, West Germany. This has been widely interpreted as the death knell for the V2000. But of course Philips will also be under pressure to keep its large factories busy — Vienna has a production capacity of 1m pieces — irrespective of the system that is produced.

### A wrangle

Philips is currently involved in a wrangle with the Japanese about the ceiling for video-recorder exports to the EEC. The Japanese maintained that Philips will not be able to meet their in-plant production figure. It must be particularly galling for Philips that Sony has just negotiated a three-year deal to sponsor the Dutch football league.

However, Philips is probably drawing some comfort from the consumer front from the Compact Disc. This may eventually largely replace the record and record player of today. Philips will get royalties on every Compact Disc player sold since it has established a *de facto* world standard with Sony.

Paradoxically, Philips already finds itself fighting other Japanese firms making its Compact Disc system under licence. Philips was reportedly shocked at the prices at which players were being offered to importers. EEC import tariffs for Compact Disc players from Japan is just 91 per cent. There is now a proposal before GATT to raise this to 19 per cent. Philips feels it is vital to protect the infant CD industry in Europe from being "murdered" in its cradle.

Despite these troublesome areas there are bright spots for Philips and the company's research and financial strength will ensure its survival as a large, often leading, multi-technology electronics company.

PROFILE: DR. WISSE DEKKER



Dr Wisse Dekker, president of Philips, beginning with a "cleaner slate."

## First chief outside the family

ISOLATING an individual's contribution to the well being of a large organisation is always difficult but one of the first and most effective things a new chief executive can do is to give a change of style. If ever a company needed a change it is Philips and if any one man is capable of doing it then it is the company's president, Dr Wisse Dekker.

With more than 300,000 employees around the globe, a multi-billion-dollar turnover and a diverse product range, Philips would be a challenge to any chief executive. In the late 1970s the company woke up to the fact that it had become too bureaucratic with too many employees and an unnecessary duplication of efforts. Dekker, a 50-year-old, not old-style paternalism were in keeping with contemporary conditions.

The first company president from outside the Philips family, Dekker's immediate predecessor Dr Nico Rodehorst, had the reputation of being a "father figure" over the major restructuring measures taken by the company. These were traumatic days for the Netherlands and for Philips but the steps taken gave Dr Dekker a "cleaner slate" on which to begin his own presidency.

Dr Dekker, 50, is a dyed-in-the-wool Philips man, born in Eindhoven and the son of a Philips employee. However, what marks Dekker out from his predecessors is that most of his 36 years with Philips have been spent outside the Netherlands. His extensive Far Eastern experience included almost six years as general manager of Philips in that area, based in Tokyo. Dekker must be one of the few industrialists in the West who can negotiate in Japanese. He is widely recognised and respected in the Japanese electronics industry and is always careful to temper any pronouncements he makes by half with the terms "Japanese colleagues" revealing a true appreciation of oriental etiquette.

Another important staging post on Dr Dekker's way to the top job was the four years he spent as Philips' chief executive in the UK from 1972 to 1976. Where, incidentally, he was awarded his honorary Doctor of Law title by Strathclyde University for his promotion of links between industry and universities. However,

Dekker's spurs were well and truly galloped when he was elected president of Philips in 1981.

As well as his international experience, Dekker has extensive product division experience, characteristics shared by other new-style board members like C. J. van der Kerk and G. Jellat, two of the vice-presidents. Dekker has created.

Wisse Dekker has made the Philips presidency a much more public office, using it as his platform to present the company's views. Internationally, Dekker is fully at ease in many languages and countries and his advocacy of EEC co-operation in electronics is well known, earning him a rather fulsome comparison with Jean Monnet, one of the Community's founding fathers. Dekker and Philips have also been portrayed as lone fighters against the Japanese dragon. But while promoting the European cause against the Japanese, Philips continues to co-operate with the very country it is fighting.

As well as promoting a new attitude and style within the company, Dekker has also presided over organisational changes designed to make the company more flexible and streamlined. The company's activities in the Netherlands have been given the same status and structure as Philips' organisations in other countries, allowing the board of management to concentrate on broader issues.

Most of his 36 years with the company have been spent outside the country.

Product division mergers of the kind between the computer activities of Philips Data Systems and Philips PTI are sensible reactions to market trends. An integration of audio and video divisions would seem to be the next such step. Another change under Dekker has been the new insistence on profitability per activity and per product division. In the past Philips often used profits from one area to cover losses elsewhere.

Dekker has presided over measures designed to improve co-ordination between research and product divisions and to speed the pathway from laboratory to market. Once a development with product potential is identified, a project leader is appointed to produce a business and development plan. If the potential is big enough it can be implemented, with the board following its progress monthly. This will hopefully help avoid the kind of errors made in the past with new products, and help shorten lead times by as much as half.

Wisse Dekker has impeccable Philips credentials, a breadth of international experience, the drive and the authority to shake and shape Philips.

The extent to which he succeeds will be crucial to the future of the company and his presidency may well be seen as a watershed in the company's development, determining whether it "flows to the sea of happiness" or to "stagnant backwaters."

William Third

## Survival in a battle against giants

**Vehicles**  
CHARLES BATHCHELOR

FOR A country which did not begin to industrialise until after the last war and which has only a small domestic market, the Netherlands maintains a remarkably diverse automobile industry.

Against the odds Daf Trucks and Volvo Car have survived as small volume producers in a world of giants. Van Doorne Transmissie, which has spent many years developing its Transmatic continuously variable transmission system (cvt) is now planning to start volume production next year.

The survival of these companies would not have been possible without many hundreds of millions of guilders of state aid and partnerships with far larger foreign groups. But by a combination of determination, good (export) salesmanship and luck they have survived.

All three companies had their origins in the fertile brains of the late Van Doorne brothers. Huh and Wim. Daf Trucks, the commercial vehicle arm, and the car operator, which was renamed Volvo Car when the Swedish carmaker Volvo took control in 1976, went their separate ways.

Meanwhile Huh van Doorne set up Van Doorne Transmissie to work on a second generation automatic transmission system to replace the Variomatic which had driven the diminutive Dafs for nearly three decades.

Despite the large amounts of government aid which have been pumped into the vehicle makers, the Dutch Government has no aid programme for the automobile industry as such. Stated Government policy is to provide backing to develop products with a future and to help restructure companies with prospects. Within this framework the car, truck and component makers can expect Fl 200m (450m) worth of aid next year from a total industrial support budget of Fl 1.77bn.

Daf Trucks has three difficult years behind it. Markets have shrunk, profits had fallen to negligible levels; a major shareholder, International Harvester (IH), decided to sell its 37.5 per cent holding; and to cap its misfortunes Mr Piet van Doorne, the chairman, died in October 1982, aged only 47, after a short illness.

Daf's decision in September to announce plans for a new series of trucks to be developed in the late 1980s and for the modernisation of its production techniques was intended as a clear statement of faith in the company's future.

Mr Aart van der Padt, Daf's new chairman, says: "We have to show we are working for the

future. The temptation in a recession is to cut investments. People say the small manufacturers won't survive this industry. This will help to show we will." Daf has almost completed arrangements for a Fl 600m financing package to fund these developments. The Dutch Government plans to provide Fl 140m while Belgium, where Daf has 40 per cent of its production capacity, is believed to be ready to provide a state guarantee for a similar amount.

### New trucks

The new trucks will replace a series which was first introduced in the late 1960s. The modernisation of production techniques will involve the introduction of flexible machining systems—computer numerically controlled machines and programmable robots. The aim is to make Daf less dependent on series size and on more economies of scale.

"By the end of the 1980s we want to remove the adverse effects of our smallness," says Mr van der Padt.

Daf has just made profits in the past two years—of Fl 1.8m in 1982 and Fl 1.2m in 1981—on turnover of around Fl 1.6bn a year. Cost savings and the good results of the special products division, which makes military and some civil vehicle components, helped keep the company in the black, but it is still unclear if a profit can be made again this year.

Daf increased its market share in its main West European markets in 1982 to 6.8 per cent from 6.5 per cent, a 7 per cent fall in overall demand for trucks of nine tonnes gross vehicle weight and above. Total unit sales nevertheless fell by about 400 vehicles to 12,891 last year. Capacity is 15,000 units.

A major source of uncertainty remains in the final destination of the former International Harvester shareholding in Daf. The shares are temporarily being held in trust but a buyer who will respect Daf's independence is being sought.

Volvo Car, which is now 70 per cent owned by the Dutch Government, is finally starting to reap the benefit of its investment in its medium-sized car, the 300 series. When it was first launched in 1976 in an automatic-only version the 300 failed to find a market.

New versions, refinements and keen pricing have finally turned the ugly duckling into a swan. Volvo Car expects to make more than 100,000 300s this year for the first time at its plant at Born in Limburg in the south-east Netherlands. In 1982 it made just under 92,000 cars.

Volvo Car's recovery has also only been achieved with the help of a sizeable injection of government aid. In May the economics ministry approved an

additional Fl 450m of support to help the company develop a new medium-range model, code-named the G1, for introduction around 1990. Volvo of Sweden will provide a further Fl 158m.

The improved fortunes of the 300 series have not yet allowed Volvo Car to return to profit. The company does not expect to be in the black until next year following an after-tax loss of Fl 14.7m in 1982 on turnover of Fl 1.35bn. This was some improvement on 1981 when the loss was Fl 28m on sales of Fl 1.11bn. The UK, where the largest Volvo-made Volvo models have always sold well, is Volvo Car's largest market, accounting for 30,400 of total sales of 90,255 last year. The Netherlands with sales of 15,000 overtook Sweden (10,900) as the second largest market.

Although the company is now largely owned by the Dutch Government following Volvo's decision to reduce its holding to only 20 per cent, a commercial agreement with the Swedish company provides for continued close co-operation on the product range and on joint marketing in world-wide.

In July Volvo Car took over the 39.5 per cent stake in Van Doorne Transmissie previously held by the Van Doorne family holding company. Volvo of Sweden originally thought it holding in Volvo Car gave it an automatic right to the Transmatic patents but a Dutch court found against it.

Transmatic, in which Fiat and the Borg Warner Corporation each have 24 per cent, while the Dutch Government holds 12.5 per cent, has contracts to supply its cvt to a number of car makers in Europe, the U.S. and Japan.

Fiat announced in September that it expects a version of its Uno model, fitted with the cvt system, to go into production towards the middle of next year — the first time it will have been offered in a saloon car. Ford, meanwhile, has been testing the cvt for possible use in a version of its Fiesta, although a final decision has not been taken. Volvo Car, too, is planning to use the cvt in its G1 model.

Following its failure to obtain the use of the Transmatic patents Volvo Car started to develop its own successor to the Transmatic system but acknowledges it had not got as far as Transmatic and is now adopting its rival's system.

A total of Fl 32m in the form of new share capital on a pro-rata basis from existing holders and bank loans is to be provided to Van Doorne Transmissie.

The company will extend its own factory to make the pulleys and the belts—the core of the system—but much of the construction and assembly work will be put out to foreign manufacturers.

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## THE NETHERLANDS VII

# Debate intensifies over use of new land

**The Polders**  
CHARLES SATCHLOR

A FEW MINUTES out of Amsterdam on the Hilversum motorway take the Lelystad turn-off and you are soon driving along a four-lane road between, in season, fields of yellow rapeseed. In the distance the horizon—which is flat even by Dutch standards—is broken by cranes and the silhouettes of half-built housing projects.

Twenty-five years ago several metres of water covered the clay lake bed of the IJsselmeer, as the Zuider Zee was renamed when it was enclosed by a dike and the only method of following this route would have been by boat. As recently as a decade ago, much of this rich farming land was still an impassable tract of mud, sludge and water pools.

The Dutch are fond of quoting Pliny the Elder, who wrote in AD47: "In this eternal struggle in the course of nature it was doubtful whether the ground belonged to the land or the sea." A mammoth drainage and reclamation programme carried out over the past half century has pushed the advantage decisively in favour of the land.

As the engineers are now discovering, however, winning back the land from the water was the simplest part of the operation. The debate over what is to be done with the "new land" has grown fiercer over the past decade as different interest groups press their case.

## Assumptions

Lobbying by environmentalists and fishermen means there is a good chance that the Markerwaard polder, the final element in the grand design for reclaiming the IJsselmeer, may not be drained.

This, in the words of one official closely involved in the project, would "mutilate" the ambitious scheme drawn up by the visionary hydraulic engineer Dr Cornelis Lely at the end of the last century. A number of the planning assumptions on which the billion guilder project has been based would be overturned.

The Dutch have been fighting back the sea ever since they settled the marshy deltas of the Mass, Rhine and Scheldt, although the first large-scale polder schemes date back to the early 13th century when the Beemster lake was drained in North Holland. The techniques have been continually improved ever since but East Flevoland, the latest of the IJsselmeer polders to be reclaimed, was created using essentially the same techniques. A ring dike is constructed around the area to be won back with pumping stations (originally windmills) at appropriate intervals. A drainage canal system is excavated under water on the bed of the enclosed area and the pumps begin their work. After several months in the case of the larger polders the lake has become a sea of mud and a finer drainage system is dug out. Reed seed is sown from light



Lelystad: plenty of greenery and water but the regular street pattern does little to break the monotony of the polder

aircraft to assist the drying out operation and prevent the growth of weeds. As the land dries it sinks, but it is now ready for the planting of rapeseed and grains.

The pumps meanwhile must continue the never-ending task of keeping the polder dry. Were they to be switched off, the water table would rise and the polder would flood again. At their lowest point the IJsselmeer polders are five metres below sea-level.

The Zuider Zee project began to take shape in the 1920s with the reclamation of the 30,000 hectare Wieringermeerpolder in the north-west and the construction of the 30-kilometre long Enclosing Dyke which turned the salt water Zuider Zee into the freshwater IJsselmeer lake.

The main aims of the project were to shorten the vulnerable Dutch coastline, create more farming land and improve water management. As the engineers drained more land, moving in an anti-clockwise direction round the IJsselmeer, their objectives changed. The 43,000 hectare North-East Polder, drained in 1937-42, is still largely agricultural but plans for the 53,000 hectares of Eastern Flevoland, drained in 1950-57, were subsequently modified to meet the need for overspill housing from Amsterdam and the crowded Randstad.

Lelystad, the capital of the proposed new province of the IJsselmeer polders, has a projected population of 100,000-120,000 by the end of the century, although it now houses around 53,000 people.

Almere, on Southern Flevoland, now has about 50,000 inhabitants but is projected to grow to between 125,000 and 250,000. Only a few kilometres from Amsterdam, Almere is proving more popular with its displaced Amsterdamers than the more distant Lelystad.

While there is still a strong demand for agricultural land on the polders from farmers forced out by the expansion of towns elsewhere and the rationalisation of smallholdings, only half of Southern Flevoland has been reserved for this purpose.

A far greater proportion will go for housing than on any other polder while large areas have been set aside for nature

reserves, recreational areas and holiday hunting parks. While the earlier polders were joined directly to the "old land," the two Flevopolders are separated by broad stretches of water which are intensively used for water sports.

A long strip of land originally designated for industrial use to the north east of Almere proved superfluous in the wake of the economic recession and has been left as a bird sanctuary and nature reserve. Birds which disappeared from the Netherlands at the beginning of the century, such as eagles and greylag geese, have returned to the area of swamp-land which developed.

While the early inhabitants of Lelystad came to the new town from all over the Netherlands with a sense of pioneering commitment, many of the later overspill arrivals from Amsterdam took more persuading of the advantages of life on initially bleak polders. Nevertheless, the attractions of a house and garden at a modest rent with nearby woods and lakes meant less than 1 per cent of the new arrivals went back to life in a flat in crowded Amsterdam. Every effort was made to provide shops, community centres and entertainment to match the growth of population.

## Effect of recession

The recession has begun to have an impact on the rate of new immigration, prompting fears that the population of Lelystad may not grow fast enough to support the communal facilities that have been provided. Rents have increased, the cost of daily travel back to a job in Amsterdam has become a deterrent, while fewer new jobs are being created in Lelystad itself.

Companies which located themselves in the polder have managed no better nor worse than those elsewhere in the country in surviving the recession, but the large number of construction companies, which are particularly sensitive to economic changes, is a cause for concern. Lelystad has attracted a large concentration of agricultural research institutes, but a

broader economic base needs to be established quickly to reduce the amount of commuting back to the "old land."

The recent opening of all but a short section of the four-lane highway linking Lelystad and Almere with the national road network has improved communications but work on a rail link has yet to be completed. Almere will be joined to the rail network in 1987 and Lelystad a year later. Part of the track has been rerouted so as not to disturb the peace of the nature reserve.

The Markerwaard, the final piece of the IJsselmeer jigsaw puzzle, depends on a government decision which has been promised by May 1 1984. Originally planned at 60,000 hectares, it has since been reduced to 40,000 to allow for a broad strip of water separating it from the "old land."

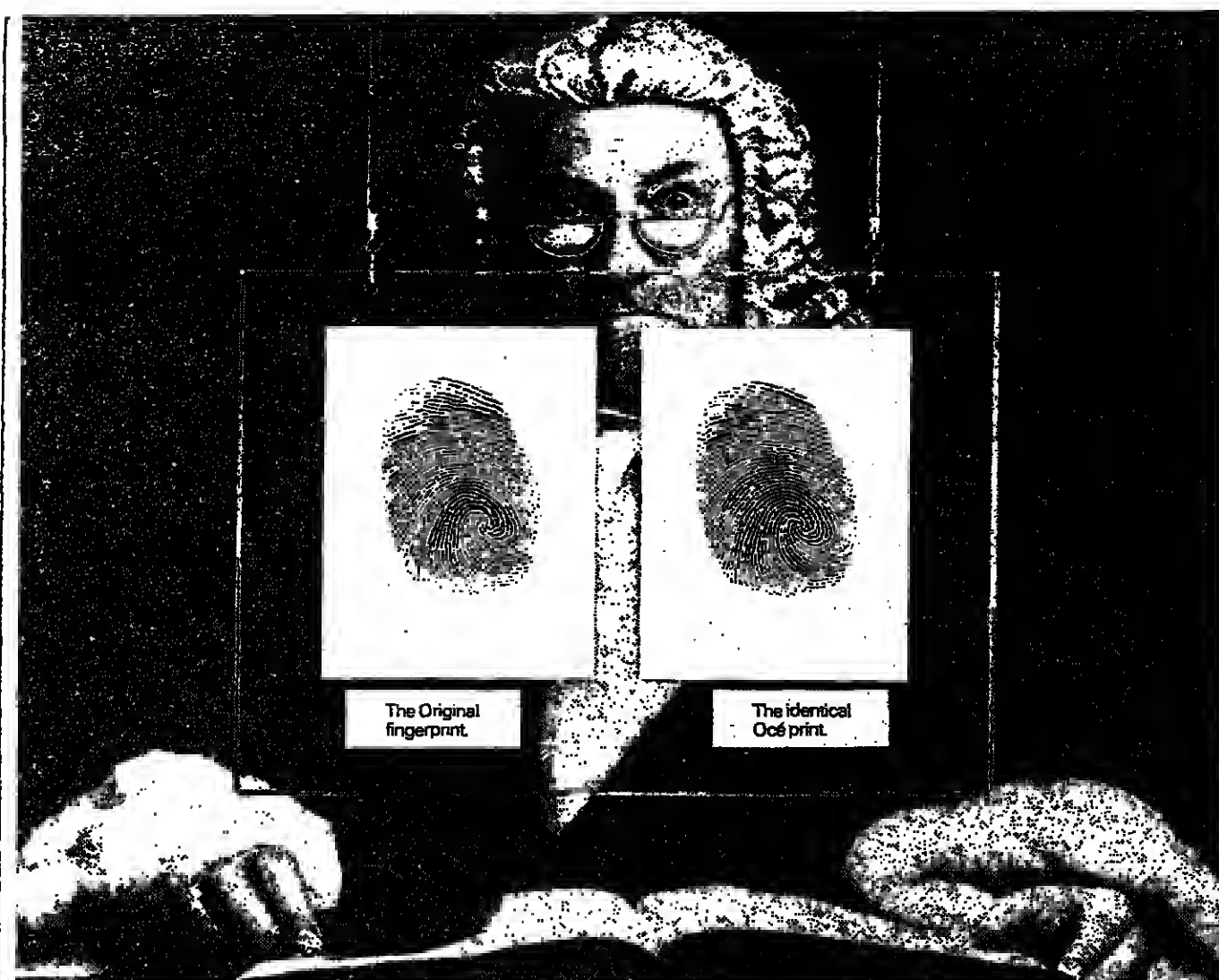
A two-year consultation process with all the interested parties has ended with a strong body of public opinion apparently against the polder.

Its opponents argue that the need for farming land is less urgent than before while the decision by Amsterdam to build new housing on derelict sites nearer the city centre rather than disperse its overspill removes another justification for the polder. The Dutch armed forces are still keen to find a new training ground but plans for a second national airport, to relieve pressure on Schiphol, have been shelved.

Against the polder are ranged a large number of environmental organisations, which want the proposed polder site retained as open water, recreational interests and fishermen.

Its supporters, notably the IJsselmeer Polders Development Authority, argue that the polder is needed in order to maintain an important area of Dutch expertise. Apart from a plan to reclaim a narrow strip of land from the North Sea between The Hague and the Hook of Holland no further projects of this type are planned.

"A lot of people who are trying to stop the Markerwaard are the same ones who want their interests catered for on the Flevopolder," said one official. "The fight over space on the Flevopolder shows we do need the Markerwaard."



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**Welfare State**  
WALTER ELLIS

SCALING DOWN a welfare state as all-embracing and generous as the Netherlands' is not only an accounting exercise, it is philosophically traumatic. No Minister likes to admit that the people have been having it too good and that he intends making life a little harder for them.

Dutch Ministers, perhaps, find this especially difficult. Politicians in Holland have spent much of the last 25 years expanding and refining their welfare system, building it into the embodiment of what each citizen would regard as civilised values. To that extent, they have been flying in the face of their own Calvinist traditions, and it might be argued that they are now, to some extent at least, returning to the Dutch equivalent of Victorian virtues.

The difference is that it is economic necessity which has brought about the current internal generosity, being circumscribed not by any renaissance of Puritan ideology but by an increasing inability to pay the old rates. Thus the current fashion, at least on the right, of referring to the need for individuals and families to stand on their own two feet had to be viewed with caution. Only Sweden has such self-esteem when it comes to giving, and liberal pride is not easily abandoned.

Having said that, there are certainly those who do believe that the need for cuts may turn

out to be a blessing in disguise. Comfortably-off civil servants, businessmen, bankers, and even journalists, are often given to criticising the welfare state for being too soft. It encourages idleness among the young and kills initiative, they say. "People don't find jobs if the state doesn't make it easy for them to live on the dole."

In the 1960s and early 1970s, the Netherlands could support a minority of unproductive dependants beyond the hard core of the genuinely unemployed, unmarried mothers, the handicapped and the old. In fact, there were those who even relished the enervating of street life and popular culture that resulted from state beneficence. No longer. Now it is back to basics.

## Draft budget

Mr Onno Ruding, the Finance Minister outlined the cuts he had in mind in his draft budget for 1984 published in September. He had assumed a general 3.5 per cent reduction in a whole range of benefits. It now looks as though that could be 3 per cent, so that the savings would be somewhat less.

For a start, he intends freezing the indexed adjustments to the welfare system so that the increases that would normally follow from changes in the cost of living will no longer be part of social arithmetic. This should save £1 405m (£300m). Next, minimum social benefits, unemployment pay and disability payments are all to be reduced, saving the exchequer (assuming a decrease of 3.5 per cent) £1.2bn.

Bringing down benefits in the first period of unemployment to

70 per cent of the last salary received would yield £1 590m. Freezing family allowances would save £1 140m, anti-fraud measures in receipt of welfare £1 125m and other specific measures £1 125m and a limitation on the accumulation of leave days during illness a further £1 175m.

In the health sector, hospital and other institutional budgets are to be cut, prescriptions are to cost more and there are to be fewer allowable expenses for health insurance funds. The only budgets due to go up are those providing help for family doctors and preventive medicine. Total savings in health and welfare combined: £1 470m.

Those in receipt of welfare payouts will be aware of the following picture. This year, an adult couple, living together with no children and with no other income, receives £1 334 (£76) per week from the state, plus £1 17.25 holiday money. A single parent with one child would receive £1 300 plus holiday money.

A single person aged 23 or over with no dependents gets £1 234 per week, again plus holiday entitlement. A school-leaver unable to find a first job is paid only a form of child allowance, which is also payable to couples with children.

These payments may not seem very generous. But health insurance and old-age pension contributions for those living on state aid are also paid, while rents are firmly controlled so that no one need pay more than, say, £1 400 a month for basic accommodation.

In addition, as indicated above, those who have just lost their jobs receive 80 per cent of their final salary for the first six months and 75 per cent for

a further two-and-a-half years. Only then do minimum benefits take effect.

In the days of relatively full employment, this meant that almost everyone who lost his or her job could expect to maintain their previous standard of living almost intact until new employment could be found. Normally, this did not take long. In the 1980s, new jobs are hard come by and the state is saddled with commitments it cannot reasonably meet.

## High priorities

It should be stressed that social welfare and health care in the modern Netherlands are high government priorities and likely to remain so. Hospitals may become slightly fewer, but those who fall ill will continue to find a bed and the necessary equipment and skills will be there to ensure all necessary treatment. Education will also remain of a high standard even if some 2,000 teachers and lecturers face dismissal.

The difference is that the system has ceased to grow. Improvements now will be mainly qualitative, and budgeting will henceforth be a tight affair. Those several million people in receipt of one form of welfare or another will have to make do with less at a time when inflation, even if low, is continuing to push up prices.

Mr Ruding and Mr Jan de Koning, the Employment and Social Affairs Minister, have shown that a Dutch Government is ready to hit out at the weak when it has to, and it is that realisation which for many—including those not directly affected—will be most wrenching.



## THE NETHERLANDS VIII

## Discord over spending cuts

The Arts  
CHARLES BACHELOR

FROM the international reputation of the Concertgebouw Orchestra of Amsterdam to the more modest achievements of the Frisian Orchestra in Leeuwarden, the Netherlands has created an impressive musical tradition. No fewer than 21 professional orchestras serve a population of 14m.

The establishment of symphony orchestras in nine of the country's 11 provinces — most of them started in the post-war years — has been only one strand of a policy aimed at making all of the arts available to all of the people.

Pressure, however, to cut back public spending and the realisation that the symphony orchestras had begun to absorb too large a proportion of the funds set aside for music generally have prompted a radical reappraisal. The orchestras absorb no less than 43 per cent of the FI 105m (£24m) which goes to musical subsidies.

The Government believes it has now found a relatively painless way of cutting spending on the orchestras without damaging the musical community. Earlier proposals which would have led to savage cuts at the Concertgebouw Orchestra and a subsequent plan to close five provincial orchestras have been dropped.

Bernard Haitink, principal conductor at the Concertgebouw Orchestra, led an international campaign last year to prevent the sacking of one-fifth of its members. Haitink argued that any cutbacks at the 95-year-old orchestra would damage artistic standards and he threatened to resign rather than accept them. The orchestra depends on the Government and the city of Amsterdam for FI 12m of its FI 14.5m annual budget.

With musicians internationally adding their voices to protests in the Netherlands against this plan the Government then proposed scrapping subsidies for five of the less well-known provincial orchestras. This too was rejected.

The Minister for Cultural

Affairs, Mr Eelco Brinkman, has now adopted proposals which should reduce the subsidies to the provincial orchestras without affecting the number of musicians available to them.

Instead of subsidising 72 full-time musicians at the Frisian Orchestra, for example, he will pay 48 full-time salaries which the orchestra is free to allocate to a larger number of part-time players. Similar savings will be made at the other provincial orchestras. In all 1,091 musicians will be replaced by 961 fully salaried posts.

## New contracts

The orchestras and musicians will have four years to negotiate new contracts providing for individuals to work, say, 80 per cent of the time for the orchestra. Many musicians already devote only a part of their working day to an orchestra, spending their free time coaching or playing in smaller ensembles. They have, nevertheless, in the past been kept on full salary.

Employing two harpists or three trombonists on a part-time basis should in many cases give orchestras greater flexibility, the supporters of this plan argue. The savings to be made on the orchestras should allow higher salaries to be paid in other branches of the musical world such as chamber orchestras, to composers and for the accompaniment of smaller dance troupes.

Orchestra managements will be forced to control their budgets more tightly, only paying musicians for work done instead of maintaining a large permanent team of players.

While the three leading Dutch orchestras — the Concertgebouw Orchestra, the Rotterdam Philharmonic and the Residentie Orchestra of The Hague — have not been asked to reduce their permanent staffs, the far-flung provinces have also been spared outright closures.

They are not pleased with having to make cuts but the alternative would have been even more serious. If an orchestra were to close down in Friesland, in the far north-east, or in Limburg in the south-east the local musical community would be badly damaged.

Musicians would not be available to coach privately or in schools, choirs would lose their accompaniment and the general quality of musical life would fall.

The second main element in the plan for musical reform involves the merger of three orchestras in Amsterdam and Utrecht into a new permanent opera ensemble to play in the new Amsterdam Opera House which is to open in 1985/86. This proposal has run into strong opposition however and may be modified.

If it is accepted, however, the Utrecht Symphony Orchestra, the Amsterdam Philharmonic and the Netherlands Chamber Orchestra, with a total of 189 players, will combine. The new orchestra will be expected to provide symphony and chamber concerts alongside its opera work. It will have the equivalent of only 140 full-time musicians.

Utrecht, which recently opened a smart new concert hall, is outraged at its loss but other local orchestras including the five radio and television orchestras based in nearby Hilversum, would be expected to perform regularly in Utrecht.

The five Hilversum orchestras have not been included in the present round of austerity measures but a study is to be carried out into how they could be better integrated into the rest of the musical community. Many people consider five orchestras excessive in the present economic climate, arguing that more performances of the other orchestras could be broadcast.

The Hilversum orchestras owe their greater freedom to the fact that they are financed from radio and TV licence fees and not directly from the Ministry of Culture's budget. But broadcasting spending is to be cut too, and this may force savings on these orchestras.

Just over half of the FI 12m these measures will save is to be put back into other forms of music. A work group set up to recommend a new structure for the country's orchestras proposed allocating nearly FI 10m to other music but the culture minister felt greater savings should be made. If all of the areas selected by the work groups still get some money then greater subsidies will go to chamber music, which has become very popular, to jazz and improvised music forms.

Electronic music, pop and ad hoc music projects will also get more funds. The support for pop music will take the form of helping establish new groups though once up and running they will be left to themselves.

The quality of musical education comes in for criticism in the work group's report. Despite the fact that many performing musicians also teach there is no attempt to co-ordinate the two activities, since music teaching is the responsibility of the education ministry, it says.

The ministry's recent decision to limit teaching opportunities open to full-time musicians is in direct conflict with the aims of the culture ministry. Despite the existence of 10 conservatoria and three musical education academies the relatively large number of musicians working in the Netherlands who have trained abroad suggests the quality of teaching is not adequate — a criticism which has also been made in other branches of the arts.

Although there is a need to make cuts throughout the subsidised arts world Mr Brinkman has said he is willing in principle to take on the subsidies at present provided by the smaller local authorities.

## Under pressure

The local authorities as a general rule provide two-thirds of the sums needed by the orchestras and the central government supplies one-third. Many authorities and their own finances are under such pressure that they are refusing to pay their share. Since the Government contribution is based on that of the local authority the complete financial framework is under threat.

The larger cities such as Amsterdam, Rotterdam and The Hague, would, however, still be expected to continue their subsidies.

The orchestras do not welcome the cuts but they seem to represent the best solution to the problem of reconciling the requirements of the provinces and of the great national orchestras.

Mr Hans Hoogerbrug, secretary of the work group, said: "What we have achieved represents a breakthrough in the 20-year-old discussion of a new structure for our orchestras."

IT IS not only London's West End theatres which are feeling the pinch as the world economic recession has grown tighter. Dutch theatre is also constrained, and the job of putting on drama, opera, ballet and the rest at Amsterdam's famous Stadschouwburg is not the joy it once was.

Berend Boudewijn has been director of the Stadschouwburg since 1978, when he gave up a career in Dutch television with few parallels in terms of popular appeal.

His job is to oversee the "home" performances of the Netherlands Opera, the National Ballet and the Public Theatre — the last Holland's nearest equivalent to a National Theatre. But at the same time, he has to attract and organise productions of various kinds from all over the world.

Last month's fare ranged from My Fair Lady — direct from London — to the Dutch College Swing Band. This month sees the return of a full-scale Lohengrin as well as performances of the lesser known Handel opera, Rodelinda.

For Boudewijn, charged with keeping all these odd balls in the air while simultaneously stretching his budget, the talents of a juggler are clearly required. Dutch theatre lives by subsidies. The belief is that no one should be deterred from a cultural evening by the price of the ticket, and the consequence is that theatregoers pay only a fraction of the true cost of their seats, with the municipality contributing the balance.

The fact that it is predominantly the middle classes who patronise the arts,

PROFILE: BEREND BOUDEWIJN

## Talents of a juggler

so that the subsidy, arguably, is travelling in an unintended direction, does not take away from the fact that an evening out at the Stadschouwburg, or elsewhere, is a bargain.

The mood, though, is changing. Boudewijn is facing up to the fact: "Last year's subsidy was 6 per cent down on 1981. This year looks like dropping another 4 per cent, and there is talk of a cut next year of 6 per cent again."

"So far, wages have kept moving up, even if the (wage/price) index is abandoned, and the cuts have mainly bit productions. But staff cuts could still come. People could be sacked."

## FI 20,000 cost

A typical production at the Stadschouwburg costs the city of Amsterdam around FI 8,500 to stage plus a further FI 25 per seat per night to cover the theatre's own administrative costs. A high production can cost more like FI 20,000, while the expense of the National Ballet's famous interpretation of the Sleeping Beauty was such that it is thought to be unrepeatable.

Boudewijn comments that the situation has come to such a pass recently that theatre directors, in counting the costs of a production, begin by counting the cast. A play requiring the presence on stage, for example, of the figures assembled in Rembrandt's Nightwatch would not get past a first reading.

Chekhov, an economical cast-master, is a popular choice and can generally be done for

around FI 8,000. NoFI Coward, more sparsely still, can be put on for a mere FI 8,000. Shakespeare, alas, with his requirement for armies (and bears!) on stage is *gramatis personae non graza*.

Boudewijn's hope is that he does not have to make some of his 58 permanent staff redundant. He notes that all those put out of work would be entitled to 80 per cent of their salary for 12 months and 70 per cent for a further year, and argues that, for Amsterdam, it would be better to pay just a little more and keep the staff of the country's largest theatre venue intact.

Running even so prestigious a theatre as the Stadschouwburg — especially at a time when aspirations have to be held back by consideration of cost — might seem an odd turn of events for Berend Boudewijn. At the age of 47, he has done the job for five years now and thinks he will carry on for some time yet. But he started out not as an administrator at all but as an actor.

The Royal Academy of Dramatic Art (RAD) in 1957 was his jumping-off point, and he has loved London ever since, frequently crossing the channel to take in a heavy of West End hits.

Then, in the 1960s, after some years on the stage, he started his own Arena company in The Hague and began to appear on Dutch television. Television is notoriously a seductive medium, and it claimed more and more of Boudewijn's attention. He began to host an intellectual game show, trading in arcane



Berend Boudewijn: less joy at the Stadschouwburg in Amsterdam

knowledge, and was surprised to find it soar to the top of the ratings.

A talk show was similarly popular, aided by guests such as Kurt Jurgens, Peter Sellers and Marty Feldman. But by the mid-1970s, the media man was weary of his easy popularity and was glad of the offer to take over the Stadschouwburg.

For an accomplished actor-director turned TV personality, he would not seem the obvious choice for the "business" of theatre. But Boudewijn seems remarkably unaffected by his life amid the glitter and is content today to serve up a rich feast to new audiences.

"I am not frustrated," he says. "I think of myself here as a good waiter serving up dishes of a master chef. The waiter's job is essential to the success of a restaurant. Even so, I may still look for something new. It's good to keep moving on. It's important to keep the stream flowing."

Walter Ellis

## Drastic changes ahead

Radio & TV  
CHARLES BACHELOR

THE DUTCH broadcasting system, one of the most tightly regulated in Western Europe, faces a period of fundamental change under proposals before Parliament in The Hague.

The uniquely Dutch framework which has been in place for the past decade and a half is coming under increasing pressure from new technologies such as cable and satellite broadcasting.

With two-thirds of the country's 4.5m households connected to a cable system — a proportion exceeded only by Belgium — the Netherlands represents an easily accessible market for foreign television transmission. Many people are already regular viewers of German, Belgian and British broadcasts and with the Dutch networks including many foreign — especially American — programmes the broadcasters and legislators feel that the national identity will be completely swamped.

Dutch television and radio in the 1980s is still very firmly rooted in the ideals of the religious and social groups which set up their own broadcasting associations in the 1920s.

## Eight associations

Time on the two television and four radio channels is shared between eight associations and the Netherlands Broadcasting Foundation (NOS), a neutral body supplying news, sport and minority programmes. None of the channels is the exclusive preserve of any one organisation.

The aim is to provide a say to different groups in society, in complete contrast to the BBC's goals of balance and impartiality. Under the Dutch system a documentary programme on an issue such as birth control will come to very different conclusions if made by VARA, the socialist network, compared to a similar theme treated by KRO, the Catholic association.

While the Broadcasting Act still lays down that organisations must represent "social, cultural, religious or spiritual currents within the population" this clause has been loosely applied in recent years.

Two former pirate broadcasters which have "gone straight", TROS and Veronica, aim simply to provide popular entertainment. Both have enjoyed considerable success at the expense of their staid, more narrowly sectional rivals.

A major disadvantage of this system is that licence fees and advertising revenues have to be shared between the eight organisations and the NOS. The limited resources available to each lowers the quality of programmes and means as much as 85 per cent of drama series are imported, mainly from the U.S. and Britain.

Advertising is strictly controlled, limited to fixed periods before and after the evening news bulletins and administered by a separate organisation, the STER.

With each broadcasting organisation allotted air time according to its membership, rational planning of programme times is difficult. One evening's broadcasting may be shared by two and sometimes more organisations.

The growth of the general broadcasting organisations has forced even those with a serious moral or political purpose to opt for more "popular" programmes. Nevertheless much of the broadcast offering remains earnest to the point of dullness.

The shortcomings of the existing order were highlighted in 1979-81 by the sudden appearance of "pirate" TV broadcasters who used relatively low-powered transmitters to beam programmes into the disc receivers erected by the cable companies.

The pirates were finally suppressed by a series of legal judgments but the strength of the public response, despite the decidedly amateurish nature of the pirates' efforts, showed clearly that change was called for.

The minister for cultural affairs, Mr Eelco Brinkman, published his broadcasting White Paper at the end of August. Its supporters welcomed his proposals as bringing a breath of fresh air to an outmoded system. Its critics forecast the end of responsible

public service broadcasting and the start of an era of commercialised trivia.

Inevitably his proposals are a compromise which attempts to reconcile the opposing views of the coalition government's two members — the Liberals (VVD) who favour opening broadcasting to commercial groups and the Christian Democrats (CDA), who are strong supporters of the public service ideal.

Mr Brinkman, a Christian Democrat, proposes allowing commercial companies to run subscriber-TV channels, for which viewers would be required to pay a monthly subscription fee. For the time being at least no advertising would be allowed.

bought for as little as FI 10,000 an hour compared with FI 200,000 it takes to produce home-grown drama. On the existing channels only half the programmes produced are Dutch — including the extensive news and documentary output.

"At worst we fear the commercial companies would take an existing U.S. channel," commented one broadcasting official. At best we believe they would buy individual programmes from abroad — mainly from the U.S. — and subtitle them."

The minister also proposes a 20-hour a week increase in broadcasting time for the existing organisations by 1985. At present the two channels broadcast for about six hours each day. Another half hour of advertising time will be allowed each week but the broadcasting organisations still fear they will not have the resources to equate with a new commercial subscriber-TV channel.

Their misgivings are compounded by a plan to cut broadcasting budgets as part of the Government's general austerity programme. The licence fee will be frozen at its present level and FI 130m will be shaved off next year's total broadcasting budget of more than FI 800m.

Salaries will be brought into line with those of civil servants and effectively cut. The other major threat facing the broadcasters is the prospect of foreign programmes being beamed into the country by satellite. These transmissions will be added, provided they are not compiled specifically for Dutch audiences and do not contain advertisements aimed solely at the Dutch market — with price tags in guilders or listing sales outlets in the Netherlands.

The broadcasting White Paper will be discussed by Mr Brinkman and a parliamentary commission in January and, if all goes well, could become law by the end of 1985.

The shape of Dutch broadcasting, however, is a very sensitive political issue. If the Christian Democrats feel too many concessions are being made, they might join with the opposition Labour party in defending the public service tradition. There is a worrying precedent for this. In 1955 the Government was brought down over a similar issue — the introduction of television advertising.

Subscriber-TV channels must have a "reasonable" Dutch content though this has not been precisely defined in the white paper. Mr Brinkman has said he favours a figure of 20 per cent but the companies think between 2 and 5 per cent would be more realistic.

American series can be

## Tough measures

CONTINUED FROM PAGE ONE

the coalition partners has often been intense. The Christian Democrat majority is split, as ever, into its centre-left and centre-right wings, with the latter providing the thrust of policy and the former the break. The Liberals, with their unyielding determination to "make Holland work," tend to intensify this division by siding with the hardliners, so that tacit understandings have subsequently grown between the left and the opposition Labour party.

Should Mr Lubbers make real progress with his economic no-hes and then achieve the bloodless deployment of cruise missiles, he seems set to last out at least another two years as Premier. If he fails, anything could happen, and Mr P. A. Nieuw, the 35-year-old Liberal leader — who scrupulously avoided joining the cabinet —

will be waiting in the wings to offer the new alternative.

## In the wings

For its part, Labour has come back strongly this year, aided by high unemployment and social deterioration. But it needs new policies as well as new, younger leadership if it is to appear truly credible. The trade unions recognise this and are seeking to make their partnership with Labour more of a two-way street.

But what if the economy continues to decline? How long can the Netherlands continue to live beyond its means? Fortunately, the signs are that, in many areas, the long-awaited recovery is just around the corner. How sustained it will be depends on two things: the growth of the world economy and the management of

## CENTRAL GOVERNMENT BUDGET

	(FI bn)		
	1983 Initial budget	1983 Likely budget	1984 Initial budget
Expenditure (excluding national debt repayments)	156.3	158.6	162.7
National debt repayments	4.0	4.0	5.8
Budget deficit	31.2	33.4	35.9
Deficit as per cent of net national income	11.9%	12.4%	12.1%

Source: ABN Bank.

Industrial and financial resources.

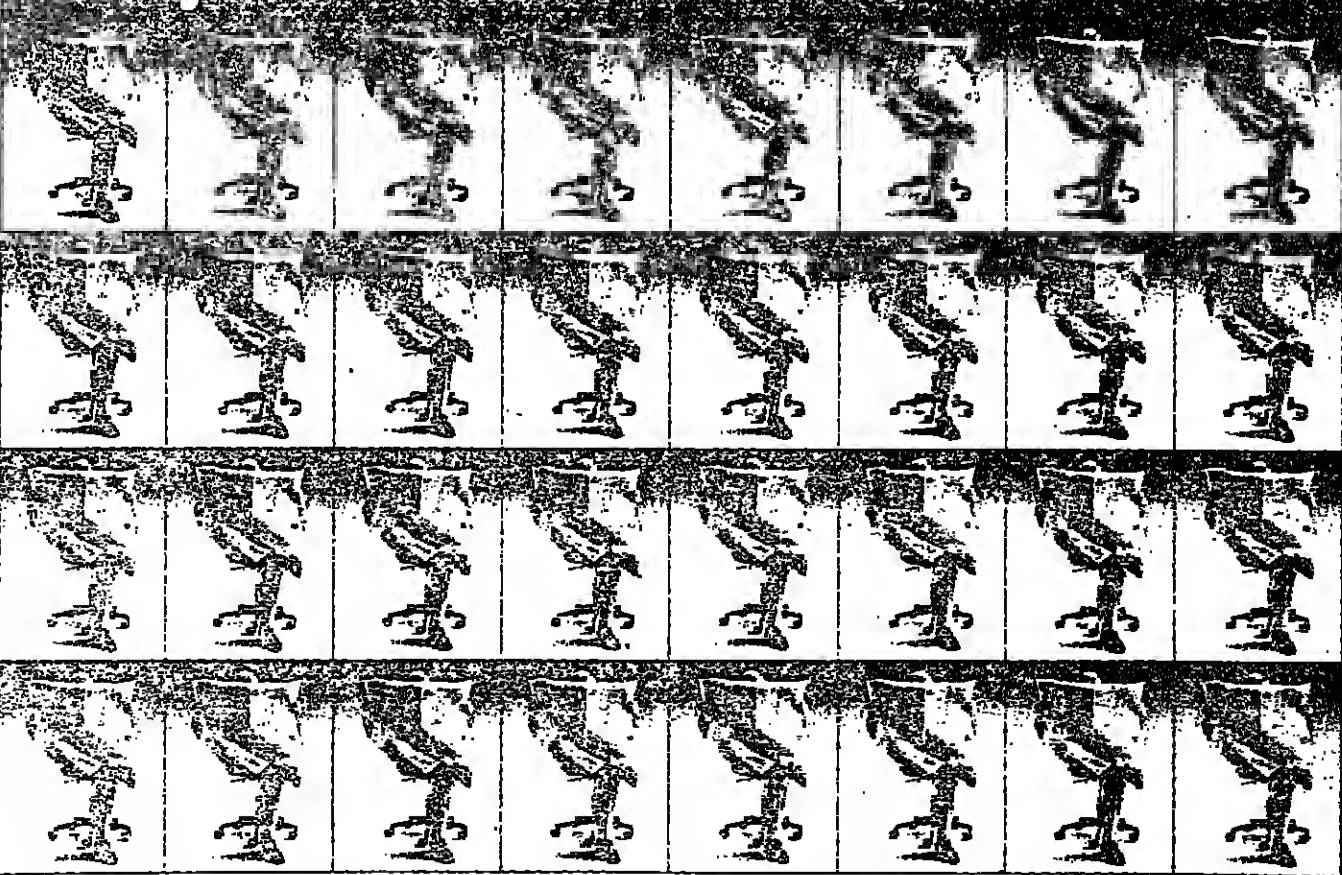
The first is beyond the control of the Government in The Hague. The second, though, is very much a matter of choice. This takes us back to where we began.

Mr Lubbers is the first Dutch premier for years to seek to take a knife to the gordian knot of economic disorder. As

a result, the country is divided into earnest supporters and angry opponents, with everyone anxious at the same time, lest they are wrong.

The austerity which he first promised and then delivered represents an assault upon the accumulated, discordant economic and social wisdom of the 1970s. The Netherlands has to hope he has got it right.

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